

The
CHEMIST AND DRUGGIST

for RETAILER — WHOLESALER — MANUFACTURER

JULY 7, 1951

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The



CHEMIST AND DRUGGIST

for RETAILER—WHOLESALE—MANUFACTURER

JULY 7, 1951

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NEWS OF THE WEEK

Doctors Reject Token Payment. — At a meeting of the British Medical Association held in London recently a proposal that token payment for prescriptions should be made was rejected.

Increased Prices for Fertilisers. — Increased prices, operative from July 1, have been announced for fertilisers. The Board of Trade states that the increase is largely due to final withdrawal of the subsidy.

Speed Limit for Goods Vehicles. — The British Road Federation, Ltd., in its annual report presented recently, calls for the raising of the speed limit for heavy goods vehicles from 20 to 30 m.p.h. in the interest of increased productivity.

Retail Sales of Turpentine. — The Board of Trade has decided to lift the restrictions on retail sales of turpentine obtained from non-dollar sources. (Sales have hitherto been restricted to medical, pharmaceutical, and veterinary purposes.) Existing restrictions on supplies of American turpentine and on turpentine for paints and polishes remain unchanged.

Postal C.O.D. Rates Increased. — The trade charge fees in the inland cash-on-delivery service of the Post Office was increased on July 1 as follows:—Not over £1, 1d.; not over £2, 1s.; £5, 1s. 2d.; £10, 1s. 4d.; £15, 1s. 6d.; £20, 1s. 8d.; £25, 1s. 10d.; £30, 2s.; £35, 2s. 2d.; £40, 2s. 4d.

Standards for Artificial Cream. — The Minister of Food has authorised the publication of reports recommending standards for products now sold as artificial cream and synthetic cream. Persons wishing to make representations on the recommendations should write to the Secretary, Food Standards Committee, 47 Portman Square, London, W.1, not later than July 9.

Export Licensing Regulations. — The Export of Goods (Control) Order, 1951 (S.I., 1951, No. 1053) came into operation on June 21, and brings up to date the Consolidation Order, 1950, with all subsequent amendments. In addition, one formal change is made—goods for which a licence to export has already been given

under the recent Control of Goods (Import Certificates) Order, 1951, are no longer controlled under the new Order.

Exportable Surpluses of Chemical Products. — The Organisation for European Economic Co-operation (O.E.E.C.) has published a further list (No. 3, May) of chemical products of which exportable surpluses are held by (or potentially available in) producing countries. Copies of the list may be obtained from H.M. Stationery Office (price 8s.) and a copy is available for reference at the offices of THE CHEMIST AND DRUGGIST.

Pharmacists in Civil Defence. — The Home Office has issued a statement on the rôle of pharmacists in Civil Defence in which it suggests that members of the Pharmaceutical Society should consider joining local divisions of the Civil Defence Corps with a request to be posted to headquarters' sections for special duties connected with chemical warfare and similar forms of attack. (Local authorities responsible for organising divisions of the Corps have been advised of the contents of the Home Office's statement and have been asked to make the fullest use of the specialised knowledge of members of the Society who volunteer).

IRISH NEWS

Examination Results. — The following were successful in the June examinations of the Pharmaceutical Society of Northern Ireland: *Final Qualifying*: George M. Armstrong, Herbert Bryson, Robert H. Caughey, John N. Fitzpatrick, James W. M. Graham, Robert Greenlees, John S. Hamilton, Evelyn M. Keating, Henry J. Laverty, William Mitchell, Aidan Mulvey, Patricia J. McDonald, Michael T. McGread, James L. McIlroy, Michael J. McKay, Daniel G. McKenna, Thomas M. O'Neill, Leslie W. Piolou and Ivan Wellwood. *Preliminary Scientific*: Henry Beirne, John G. Blair, Thomas Bogues, William G. S. Coulter, Patrick J. Devlin, Denis McG. Dougherty, John C. Dundee, Maureen Ferguson, John D. Forster, John V. Fox, Annie M. M. Friel, John H. Galbraith, Cecil Gibson, Robert Graham, William T. Hunter, Robert J. Hynes, Thomas J. Killick, Muriel E. Kinney, Michael J. McAteer, James McDonagh, John McElreavey, Michael J. McEvoy, Brendan A. McMullan, Patrick J. McMullan, George T. Nelson, Gerald A. O'Boyle, Edward O'Hare and Hugh D. Rice.

LOCAL NEWS

London Staff Outing. — The annual staff outing of William Martindale Wholesale, Ltd., London, W.1, was held on June 10 by coach to Clacton-on-Sea.

Theft at Maidenhead. — Thieves broke into the shop of G. Loxton & Grinstead, Ltd., High Street, Maidenhead, recently, through an insecure window, and stole bottles of perfume, combs, films and lipsticks.

Window Display Prizewinners. — In a Festival of Britain shop-window display competition organised by Burnley, Lancs, chamber of trade recently, the second and third prizewinners respectively, in a "Things to Use" section, outside area, were Messrs. J. O. Holden, Abel Street, and Milton Thomas, Coal Clough Lane, chemists.

SPORT

Bowls. — **ULSTER CHEMISTS' ASSOCIATION** (guests of Ulster Motor and Cycle Traders) at Cliftonville green on June 27. Motor Traders: R. Carse, 13; W. Kirk, 19; D. Graham, 20; S. Mitchell, 13. Chemists: T. Ross, 20; G. Hamilton, 10; J. Ritchie, 11; J. Caldwell, 21. The Motor Traders thus won by three shots.

Golf. — **EDINBURGH CHEMISTS' GOLF CLUB**, at Craigmillar Park, for Captain's prize: 1, J. Ferguson, 73-3-70. Club prizes: A, J. E. Budge, 81-8-73, and W. S. Thomson, 83-9-74; B, John Liddell, 90-18-72, and A. Fulton, 91-17-74; C, W. J. McRitchie, 102-24-78. Best scratch score: J. Ferguson, 70. Later, for Duncan Flockhart tankard: W. M. Dickson (8), 74. Club prizes, No. 1 section: 1, A. E. Graham (7), 75, 2; D. Walker (10) 76. No. 2 section: 1, A. Young (12), 80, 2; J. Liddell (18), 80. Scratch, W. E. Herd, 77. Foursomes, v. J. F. Macfarlan & Co., Ltd., won by 3-0, with one match halved.

IRISH CHEMISTS' GOLFING SOCIETY beat Ulster Chemists' Golfing Society at co. Louth, on June 27, by nine matches to nil, retaining British Drug Houses cup. Winning team were guests of Ulster Society and were welcomed by the captain (Mr. J. McRoberts). Cup presented to Irish captain (Mr. J. Duffin) by Mr. More (manager, Liverpool branch, The British Drug Houses, Ltd.). Best card prizes: J. Holland and W. P. Mullan; runners-up: J. Eustace and F. McInally. Bogey: H. McCafferty.

GOLF SECTION, GLASGOW PHARMACY CLUB, at Western Grailes, June 5, for Reckitt Colman trophy: 1, A. L. Jameson, Herts Pharmaceutical prize: 1, J. D. Main. At Kilmacolm, June 12, for Hatrick trophy (two-ball foursome): 1, G. F. Grant and J. F. Farmer.

MANCHESTER CHEMISTS' GOLFING SOCIETY, annual competition for Ucal trophy and memento prize, at Firley Hall, Huddersfield, June 20: 1, E. M. MacIntosh, 73; 2, E. Rothwell, 74.

TOPICAL REFLECTIONS

Round the World

Your annual Special Issue brings, as usual, a widely ranging series of articles which, together with news, take your readers round the world. In the words of a trade description that used to appear regularly, you are on this occasion a universal provider. At the risk of appearing partial I must specify a few of the outstanding contributions. First among them may be selected Dr. G. W. Himus's "Geology and the Pharmacist" (pp. 883-90), a subject as attractive in his presentation as it is unusual. No one need hesitate to give a careful perusal to this authoritative conspectus of mineral raw materials; and in passing I may remark that it was the work of the geologist Sir Charles Lyell that helped to prepare the way for the discoveries of Darwin, I also select Mr. J. Penry-Jones's account of the Cutler Street Warehouses (pp. 839-42), another repository of raw materials used in the chemical and drug industries. Once, in the company of a merchant, I was admitted to those precincts: like many other visitors, I found samples of absorbing interest. The article on the pharmaceutical department of the Royal Cancer Hospital (pp. 847-51) comprises, if I am not mistaken, the first published description of one of our principal specialised institutions. In different ways "A Short History of the Sulphur Problem" (pp. 872-78) by Dr. D. W. F. Hardie, the anonymous "Portuguese-Spanish Ergot" (pp. 866-67) and Dr. W. R. Bett's sketch of the career of Parmentier (pp. 830-31) attract every good student of scientific literature. Mention must also be made of the important letter from Mr. F. J. Smith on price maintenance (p. 892).

Detection of Crime

Though I have no time to spare for reading detective stories, I recognise that crime has a fascination of its own. "Science in Criminal Investigation" by Dr. G. E. Turfitt (pp. 835-38) and "The Chemist in the Box" by Mr. Laurence Dopsone (pp. 833-34) deal in different ways with the tracking of criminals. Dr. Turfitt's examples of problems confronting forensic scientists are of special interest in view of the fact that in the earliest days of this branch of criminal investigation there was some hesitation—an understandable hesitation—on the part of the authori-

ties in releasing for publication technical details of laboratory work. His article will be read with attention. The famous trials described by Mr. Dopsone keep their freshness to a considerable extent. I remember seeing Mr. Justice Hawkins, who tried the Lamson case, passing a pharmacy window in the 'nineties, and being impressed by his piercing eyes: it was obvious that there would be little joking in court when he was presiding. A few years later I saw a play, the name of which I have forgotten, with a plot probably suggested by the Lamson trial. In the last act an expert of some sort came on the stage, put a lozenge in his mouth, and without giving himself time to taste it exclaimed "Aconite!"

Choice of Formulas

One thought suggested by reading the article "Wecker and His English Translators" (pp. 857-61) relates to the method or methods of selection adopted by compilers of formularies. For what reasons did they choose, and for what reasons reject? The name of Wecker's contemporary B. D. Cronenburgius comes to mind in this connection. His "De Compositione Medicamentorum" appeared in 1555, five years before the first of Wecker's books mentioned on p. 857. Both writers took their vocations seriously. Cronenburgius gives a list of 197 authors consulted, and Wecker, in the 1601 edition of his "Antidotarium Generale" and "Antidotarium Speciale," lists 207, including Cronenburgius. On comparing these lists I have selected four examples of names cited in both. The first is Gilbertus Anglicus, who might have been William Gilbert of "De Magnete" fame but for the fact that in 1555 he was too young to have attracted much attention. The second is the thirteenth-century Arnaldus de Villanova, an important figure in mediæval medicine. The third is Cleopatra, elsewhere described by Wecker, to my surprise, as "doctissima formina." The fourth is a group of Nicolauses (or Nicolai), six in number but not identical in the two books. Wecker's is the better list, as Cronenburgius has diluted his with names which, however famous, cannot be regarded as much to the purpose: Homer is an instance. We must admire the Weckers of history for their industry as authors, and may well wonder how some of them contrived to carry on a practice or a business at the same time.

Xrayser

SOCIETY OF CHEMICAL INDUSTRY

Seventieth Annual Meeting

COMPLETING seven decades of activity in Festival of Britain year, the Society of Chemical Industry almost necessarily chose



Mr. John Rogers, O.B.E.

London as the venue for its annual meetings, which open on July 9 and continue until July 13 (admission restricted to members and invited guests). The theme of the lectures this year is "Water in Industry." After a general introduction to be given on July 11 by Mr. H. W. Cremer, C.B.E., M.Sc., F.R.I.C., M.I.Chem.E. (chairman of a subcommittee of the Society's Publications Committee, vice-president of the Society 1949-50, and this year's president of the Royal Institute of Chemistry) papers will follow on July 11, 12 and 13 on water in relation to crop production, scientific research, corrosion, brewing, boilers, and

sewage, and there will be numerous excursions to works, including those of Kodak, Ltd., Harrow, The British Drug Houses, Ltd., London, N.1, Plant Protection, Ltd., Fernhurst, Roche Products, Ltd., Welwyn Garden City, and Glaxo Laboratories, Ltd., Greenford. On July 11 the Society's medal (awarded not more often than once every two years for conspicuous services to applied chemistry) is being presented to Professor Edward Charles Dodds, M.V.O., M.D., D.Sc., Ph.D., F.R.C.P., F.R.I.C., F.R.S., whose medal address is entitled "The Decisive Influence of the Chemical Industry on Medicine." Professor Dodds is Courtauld Professor of Biochemistry, the University of London, and director of the Courtauld Institute of Biochemistry at the Middlesex Hospital, London. He is internationally famous for his synthesis, with Sir Robert Robinson and others, of stilboestrol (in 1938), and for his notable work on the subject of the preparation of insulin.

The Society's president-elect for 1952 is Mr. John Rogers, O.B.E. (chairman, Imperial Chemical Industries, Ltd., and a member of the Society since 1899).

MR. G. A. TOCHER RETIRES

ON June 30 Mr. G. A. Tocher, M.P.S., retired from the secretaryship of the London Pharmaceutical Committee after holding

office since its inception. At a meeting held on June 19, the Committee passed with acclamation the following resolution:—

"That the London Pharmaceutical Committee desires to place on record its great appreciation of the loyal and conscientious manner in which Mr. G. A. Tocher has served the Committee and chemists in the County of London as secretary of the Committee during a period of nearly forty years since its inception. By his retirement on June 30, the Committee loses a most valuable and respected officer. He has earned the esteem of the Committee and of the chemists in the County of London by the able and efficient manner in which

he has discharged his duties at all times. They desire to acknowledge the valuable services he has rendered as a pharmaceutical representative on the London Insurance Committee and the London Executive Council. The Committee offer him their sincere good wishes for a long and happy retirement."

Mr. Tocher served his apprenticeship with his brother, the late Dr. J. F. Tocher, D.Sc., F.R.I.C., Aberdeen, and qualified in 1905. He transferred to South-east London in 1906 for further retail experience, later serving with Menley & James, Ltd., and Duncan, Flockhart & Co. as a representative. Alive to the necessity of uniting pharmacists in the Metropolis prior to the inception of the National Insurance Act, 1912, he organised, in 1911-12, the district associations of London (the "Western" was already in existence but operated only in a circumscribed area around the West End), and formed the London County Executive for the purpose of constituting the original Local Pharmaceutical Committee. In 1912-14 he acted as honorary secretary of that Committee, and in January 1914 was appointed secretary of the statutory



Mr. G. A. Tocher

Pharmaceutical Committee for London. On the outbreak of the 1914-18 war, Mr. Tocher was appointed secretary of the Joint Insurance and Pharmaceutical Advisory Committee, and for his work in that connection was honoured by a presentation in 1919. In 1921 Mr. Tocher was appointed a member of the London Insurance Committee, serving on that body and various sub-committees until 1948, when he became a member of the London Executive Council. He originated and carried out various dispensing schemes, including those of the L.C.C. outdoor medical relief, London Public Medical Service and the South Metropolitan Gas Co., all de-

vised to secure that the dispensing of medicines was reserved to pharmacists. For many years Mr. Tocher was a prominent member of the North London Association, serving as its president in 1938. In the 1939-45 war, he was secretary of the London County Pharmaceutical War Committee, and until March 1951 he was a member of the Woolwich Hospital Management Committee. He is also a member of the L.C.C. Divisional Health Committee for the boroughs of Battersea and Wandsworth.

Mr. Tocher is succeeded as secretary of the Committee by the Assistant Secretary, Mr. W. F. Wilkinson, Ph.C. (see p. 8).

PRESENTATION TO A WORKS MANAGER

WORK was eased for a time at the Fairclough Street works of Potter & Clarke, Ltd., on June 27 to enable the employees to be present at a ceremony of farewell to Mr. L. J. Walker, Ph.C., F.C.S., works mana-



Colonel R. W. Wren presents to Mr. L. J. Walker a gold fountain pen from group managers. On the table are items presented by the staff.

ger, on his leaving the company to take up a similar post elsewhere. Colonel R. W. Wren, who presided, said that Mr. Walker had joined the company as a young apprentice under the late Mr. Henry Potter, Ph.C., in 1918. At the Pharmaceutical Society's school he had been a brilliant

student, gaining the Martindale memorial medal and silver medals in botany, chemistry and materia medica, and returning to the company to become in turn analyst, chief chemist and laboratory manager, and finally works manager. All appreciated his loyalty, not alone to those above him, but also to those under his control, and would watch his progress with interest. On behalf of the staff Colonel Wren then presented Mr. Walker with a combined alarm clock, tea maker and pourer; and an umbrella. For the group managers he handed over a gold fountain pen.

Mr. Walker's Reply

Acknowledging the tributes and presentations Mr. Walker said that after being sent—and paid for—by the company to study pharmacy, he had returned after qualifying equipped to build up the organisation at Fairclough Street. His guiding principles had been loyalty to the board, justice to those under his leadership, and the welfare of employees, customers and shareholders, and he commended those watchwords to his successors with the hope that they would be linked with the initials LJW. His successor had three difficult years to overcome, but a firm policy lead from the directors, efficiency among the managers and work with a will from the staff would see them through.

The presentation of a gold watch to Mr. Walker by the directors of the company was made at an informal luncheon at which he was guest on June 29.

On July 2 Mr. Walker joined The Wellcome Foundation, Ltd., as manager, Pharmaceutical Division, Wellcome Chemical Works, Dartford.

COMPANY NEWS

T. & H. SMITH, LTD.—Mr. V. F. Noel Paton has been appointed a director.

BOOTS CASH CHEMISTS (NORTHERN), LTD.—Net profit for the year ended March 31 amounted to £50,615 (against £43,847). To contingencies reserve, nil (£16,054); fall in value of stock-in-trade reserve, £15,000 (£19,000); freehold property reserve, £2,500 (same); pensions, £7,228 (nil); goodwill purchased, £15,150 (£2,400); preference dividends, £11,353 (same); carried forward, £19,823 (£20,339).

BOOTS CASH CHEMISTS (WESTERN), LTD.—Net profit for the year ended March 31 amounted to £123,766 (£133,535). To contingencies reserve, £7,861 (£58,298); fall in value of stock-in-trade reserve, £35,000 (£15,000); freehold property reserve, £5,000 (same); pensions, £12,573 (nil); goodwill purchased, £23,800 (£15,000); preference dividends, £14,355 (same); ordinary dividend £25,000 (same); carried forward, £35,601 (£35,423).

BOOTS CASH CHEMISTS (EASTERN), LTD.—Net profit for the year amounted to £160,762 (£156,456). To general reserve, £50,000 (nil); contingencies reserve, nil, (£35,000); fall in value of stock-in-trade reserve, nil (£25,000); pensions, £6,817 (nil); freehold property reserve, £15,000 (£10,000); preference dividends, £12,650 (same); ordinary dividend, £75,000 (same); carried forward £39,220.

BOOTS CASH CHEMISTS (SOUTHERN), LTD.—Net profit for the year ended March 31 amounted to £102,852 (against £114,488). To contingencies reserve, nil (£42,861); fall in value of stock-in-trade reserve, £30,000 (nil); freehold property reserve, £5,000 (same); pensions, £15,891 (nil); goodwill purchased, £6,800 (£19,750); preference dividends, £18,975 (same); ordinary dividend, £30,000 (same); carried forward, £50,091 (£53,905).

BOOTS CASH CHEMISTS (LANCASHIRE), LTD.—Net profit for the year ended March 31 amounted to £74,135 (against £90,572). To general reserve, £15,000 (nil); contingencies reserve, nil (£24,537); fall in value of stock-in-trade reserve, £15,000 (£25,000); pensions, £6,508 (nil); freehold property reserve, £2,500 (same); goodwill purchased, £4,250 (£5,850); preference dividends, £9,405 (same); ordinary dividend, £20,000 (same); carried forward, £27,254 (£25,782).

NEW COMPANIES

JORDAN BROS. (GRAYS), LTD. (P.C.)—Capital £15,000. To carry on the business of wholesale or retail chemists, etc. Percy G. Jordan, M.P.S., Mabel E. Jordan and Derek K. Jordan, M.P.S., directors. R.O.: 50 High Street, Grays, Essex.

HERBERT & HERBERT (CHEMISTS), LTD. (P.C.)—Capital £5,000. To carry on the business of manufacturers, wholesalers and retail chemists and druggists, etc. William A. Herbert, M.P.S., and Sybil M. Herbert, directors. R.O.: 70 High Street, Staines, Middlesex.

HOGG'S PHARMACIES, LTD. (P.C.)—Registered in Belfast. Capital £7,000. To acquire the business of a pharmaceutical chemist now carried on by James N. Hogg at 110 and 262 Shankill Road, Belfast. James N. Hogg, M.P.S.N.I., and Kathleen E. Hogg, directors.

A. O. PEARLMAN, LTD. (P.C.)—Capital £100. To carry on the business of manufacturer of surgical wadding to be prepared by a method invented by Oscar Benedek. Arthur O. Pearlman and Oscar Benedek, directors. R.O.: 59 Sloane Street, London, S.W.1.

BUSINESS CHANGES

MR. JOHN F. STEVEN, B.Sc., B.Pharm., Ph.C., has acquired the business of the late Mr. R. Knight Hepburn, M.P.S., 125 High Street, Aldeburgh, Suffolk.

MR. IVOR G. THOMAS, M.P.S., has been granted permission by the Guernsey Royal Court to practise as a chemist and druggist in Guernsey.

THE yeast production department of the Distillers Co., Ltd., has been transferred to 13 South Charlotte Street, Edinburgh, 3 (telephone: Edinburgh, Caledonian, 3488).

VITAMINS, LTD., Upper Mall, London, W.6, have appointed Mr. R. H. Cheyne their representative for East London and the Eastern Counties.

THE Swallwell Co-operative Society, Ltd., have opened a branch pharmacy at Trout Street, Wickham, nr. Newcastle-on-Tyne.

BRITISH SCHERING, LTD., 229 Kensington High Street, London, W.8, have made the following appointments to their representative staff:—Mr. G. S. Blackie, mid and north Lancs and Westmorland; Mr. L. Kent, Yorks and Durham.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

In the adjournment debate on arrangements for analgesia in Coatbridge, on June 26, Miss M. HERBISON (Joint Under-Secretary of State for Scotland) told MR. P. THORNEYCROFT that four prototypes of trichlorethylene analgesia machines had been produced by manufacturers. None precisely fulfilled the requirements sought by the committee under Sir William Giffatt. The machines subsequently had been modified and tested on a small scale in hospitals. Further tests were necessary.

Refunds from Chemists

SIR HUGH LUCAS-TOOTH asked the Minister of Health how much excess money, paid under the existing pricing scheme for the Health Service, chemists had been required to refund. In a written reply on June 26, MR. H. A. MARQUAND said that precise information was not available, but he had no reason to suppose that the amount involved was large.

Sulphur Supplies

Introducing the Ministry of Materials Bill, on June 27, MR. R. R. STOKES (Lord Privy Seal) said that the sulphur committee in Washington had made "giant strides." He saw no reason to alter his conclusion that Britain would receive enough sulphur to meet essential requirements. By 1954 the total of sulphuric acid produced in Britain would have risen from 280,000 tons to 900,000 tons, and imports of sulphur would fall by 50 per cent. by 1955-56.

Delays in Payment

SIR HERBERT WILLIAMS asked the Minister of Health on June 28 the reason for delays on the part of his Department in making payments in connection with the Health Service, and in particular why, on March 31 this year, the sum of £1,170,000 was owing to a firm the name of which had been sent to him. SIR JOCELYN LUCAS asked what was the average delay in making the final payments to chemists, and whether it was still increasing.

MR. H. A. MARQUAND: Final payments are delayed because the pricing of prescriptions is in arrears, but all chemists receive advances each month and supplementary payments whenever these are justified. The approximate average delay in

authorising final payments is nine months. The speed of pricing is steadily increasing and I hope that it will shortly keep pace with current work. Meanwhile "no injustice has been done to anybody as substantial advances are made."

SIR JOCELYN LUCAS asked if, in view of the fact that many chemists were having to pay interest on overdrafts owing to the delay in payments by his Department, he would allow interest on accounts not paid within six months. In a written answer MR. H. A. MARQUAND said: No. The payments on account are estimated to put chemist contractors in the same financial position, on the average, as if pricing were up to date.

Metals Allocation

MR. HUGH GAITSKELL announced on June 28 that the Government had decided there must be full allocation schemes for steel, copper, zinc and their alloys. It would be some time, however, before schemes could come into force.

LEGAL REPORT

Opium "Enough for a Year."—Nearly ½ lb. of opium was seized when a Pakistani seaman was charged at South Shields recently with being in illegal possession of the drug. Fined £30, the seaman was stated to have been fined £10 in 1949 for a similar offence.

Against Principles to Pay Fine.—At Doncaster on June 22, Dr. Michael John Cotter, general practitioner, Bank Street, Mexborough, was sent to prison for two months after refusing to pay a fine of £10 imposed on June 5 (see *C. & D.*, June 16, p. 763) when he was accused of failing to keep morphine sulphate in a locked receptacle. At the first hearing he admitted leaving the drugs in a bag outside his garage all night after having forgotten them. He was arrested on a warrant for non-payment of the fine, and refused to be bailed. The arrest was stated to have been left until a late hour (11.30 p.m.) to enable the doctor to complete his work. Dr. Cotter told the police that he would not pay the fine as it was against his principles. He had a partner who could look after his patients in his absence. The chairman said they were left with no alternative but to send the doctor to prison.

MARRIAGE

Golden Wedding.—JACKSON—HINCH.—At Old Clee Church, Cleethorpes, Lincs, on June 20, 1901, Herbert Jackson, M.P.S., to Nellie Hinch. Present address: Station Road, Sandiacre, Notts.

DEATHS

CATTO.—On February 22, Mr. Alexander Catto, M.P.S., 4 Nutley Close, Goring-by-Sea, Sussex. Mr. Catto qualified in 1908.

DEAN.—On June 17, Mr. John Charles Dean, M.P.S., c/o Spinks the Chemists, 15 Flowergate, Whitby, Yorks. Mr. Dean qualified in 1933.

MATHEWS.—Suddenly, in his pharmacy, on July 2, Mr. Charles Mathews, M.P.S.N.I., 3 Chester Avenue, Whitehead, Belfast. Mr. Mathews qualified in 1926 after serving his apprenticeship in Belfast with Mr. David Taylor. Before setting up in Whitehead on his own account he carried on for some years the business of the Dunville Medical Hall, Falls Road, Belfast.

MORLEY.—Recently, Mr. William John Morley, M.P.S., 76 New Street, St. Helier, Jersey, Channel Islands, aged eighty-five. Mr. Morley established his business at that address over forty years ago and came to be looked upon as a friend and medical adviser by a wide range of customers. In 1946 he took into partnership Mr. G. H. Flory, M.P.S., but retained a close personal association with the business until within the past six months when he underwent an operation from which he never fully recovered.

MUTER.—On February 7, Mr. Alexander Henry Mitchell Muter, F.R.I.C. On the death of his father, Dr. John Muter, (founder of the South London School of Pharmacy) he succeeded to several appointments as public analyst for which he had been deputy. He was later public analyst to the borough of Colchester.

PERSONALITIES

MR. W. G. REIDFORD (senior Scottish representative for Cuxson, Gerrard & Co., Ltd., Oldbury, Birmingham) has had to retire because of ill-health. Mr. Reidford has been in the company's service for many years.

MR. C. DAGLISH, B. Pharm., Ph.C., has been awarded the Ph.D. degree of London

University for a thesis entitled "The apparent vitamin C of the walnut (*Juglans regia*) and its possible interaction with true vitamin C."

MR. W. F. WILKINSON, Ph.C., took over the secretaryship of the London Pharmaceutical Committee from Mr. G. A. Tocher on July 1 (see p. 4). Apprenticed with Boots, Ltd., Newton Abbot, Devon, Mr. Wilkinson, who qualified in 1942, passed the Pharmaceutical Chemist examination the following year and secured silver medals in pharmaceuticals and pharmacognosy. He

served in the Royal Navy, 1943-46, rising to lieutenant, and upon demobilisation was appointed demonstrator in the pharmacy department of the School of the Pharmaceutical Society. After retail managerial experience in London and the Home Counties, 1947-49, he was appointed assistant secretary of the Committee in August 1949.

MR. V. F. NOEL PATON, Coulter, Bigger, Lanarks, who has been appointed a director of T. & H. Smith, Ltd., Edinburgh, recently returned from India, where he was the chairman and managing director of Killick Industries, Ltd., Bombay. He was president of the Bombay Chamber of Commerce in 1949 and had held the post of vice-president of the Associated Chambers of Commerce in India.

COMING EVENTS

Wednesday, July 11

HARROW BRANCH, PHARMACEUTICAL SOCIETY, visit to factory of Goya, Ltd. Coach leaves Lowlands Road, Harrow, at 2 p.m.

WOLVERHAMPTON CHEMISTS' ASSOCIATION and BRANCH, Chamber of Commerce, Lichfield Street, at 7.15 p.m. Annual meetings.

Thursday, July 12

NORTH LONDON PHARMACEUTICAL ASSOCIATION and NORTH METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY. Visit to Allen & Hanburys, Ltd., Ware, Herts. Coaches leave Nag's Head, Holloway, London, N.7, at 1.45 p.m. Fare 5s.

WOLVERHAMPTON CHEMISTS' PARTY. Annual outing to Windsor, July 15, leaving at 9.30 a.m. Fare, etc., 22s. 6d.



TRADE NOTES

Annual Holidays.—Thomas Morson & Son, Ltd., 47 Gray's Inn Road, London, W.C.1, announce that their factory will be closed from July 20 to August 8.

Stockists in Ireland.—St. Dalmas (Ireland), Ltd., Henrietta Place, Dublin, are stockists for Pabayn hormone, vitamin, liver and endocrine preparations.

Films from Stock.—Sangers, Ltd., 258 Euston Road, London, N.W.1, can supply immediately from stock Guilleminot films in all English standard sizes.

Larger Size.—Parke, Davis & Co., Ltd., introduced on July 2 a large size Euthymol tooth-paste, to which attention is drawn on another page.

Industrial Safety Goggles.—J. & R. Fleming, Ltd., 146 Clerkenwell Road, London, E.C.1, have produced a thirty-page illustrated price list of their industrial safety goggles, respirators, gloves, etc.

Sole British Agents.—Continental Laboratories, Ltd., 101 Great Russell Street, London, W.C.1, have been appointed sole agents for the British Isles for Stannoxyl tablets and other products of Laboratoires Robert & Carrière, Paris.

Increased Production Planned.—The Harlequin range of beauty products has been acquired by J. E. Ellis, Ltd., Horsforth, Leeds, who plan to increase the range of products as production problems allow and to extend advertising.

A New Emollient.—Radiol Chemicals, Ltd., 78 Upper Richmond Road, London, S.W.15, have introduced Radian massage cream based on the formula of Radian B liniment. An announcement appears on another page.

Streptomycin Sulphate.—The Distillers Co. (Biochemicals), Ltd., Speke, Liverpool, 19, announce the availability, through their usual distributors, of streptomycin sulphate DC(B)L in vials of 1 million international units (equivalent to 1 gm. streptomycin base).

Price List.—The Crookes Laboratories, Ltd., Park Royal, London, N.W.10, have posted to all retail chemists a copy of their 1951 price list with increases and alterations in force from July 2. Any chemist who has not received a copy by July 7 should communicate with the company. The hand cream mentioned on p. 9 of the list and the vitamin B₁₂ ampoules on p. 18 are not yet available.

Appointed Distributors.—Tampax, Ltd., 110 Jermyn Street, London, S.W.1, have been appointed sole distributors of the products of Kylon, Ltd., the first of which is a range of vaginal medicated jellies for use in all conditions for which soluble pessaries are used.

Display Outer and "Dispenser."—Cuxson, Gerrard & Co., Ltd., Oldbury, Birmingham, have produced for their boil



treatment a display outer containing twelve treatments and a counter "dispenser" display piece.

Antihistamine Cream.—Burroughs, Wellcome & Co., 183 Euston Road, London, N.W.1, have introduced Histantin cream containing 2 per cent. Histantin brand chlorcyclizine hydrochloride in a water-miscible cream base. The cream is intended for use as an alternative or supplement to the oral administration of Histantin in the treatment of urticaria, dermatitis, insect bites and stings, etc. It is issued in collapsible tubes holding 3/4 oz. approx. and in jars of 1 lb.

Seaside Competition.—D. & W. Gibbs, Ltd., Kingscote House, Watergate, London, E.C.4, have arranged a competition in twenty-one seaside resorts to promote the sale of Astral skin cream. The competition opened at Bournemouth on July 4 and closes at Margate on August 3. Under it the Astral girl ("an attractive honey-blonde") appears at specified times and competitors have to look for her and challenge her with the words "Are you the Astral girl with the happy-go-lovely skin?", at the same time showing a tin of Astral skin cream. When correctly challenged the Astral girl hands over the prize of £5 and moves on to her next rendezvous. Extensive advertising is being carried out.

MINISTRY'S "COMPROMISE OFFER" ON TERMS

A LETTER containing details of an offer on National Health Service remuneration to chemist contractors is being sent to contractors by the Central N.H.S. (Chemist Contractors) Committee. The letter should reach contractors by July 10.

As a result of discussions subsequent to the issue of the Scottish award, it states, the Ministry of Health has expressed its willingness to effect a settlement by agreement and has put forward an offer, the terms of which are set out below:

(1) *Oncost*: A 25 per cent. oncost to be paid from May 1, 1950 (replacing the provisional 16 per cent. rate).

(2) *Dispensing Fee*: An additional 1d. per prescription to be paid on all prescriptions dispensed from May 1, 1950.

(3) *Dispensing Allowance*: No change to be made in the container allowance of 1½d. per prescription, but, if contractors prefer it, the deposit system to be reintroduced and a payment per prescription (approx. ½d. per prescription) made to compensate for non-returnable containers (boxes, cartons, etc.).

(4) The proposals are subject to the condition that they are accepted as a full settlement at least until April 1, 1952, unless Scottish contractors apply before that date for a further increase in remuneration. No application submitted at or after, April 1, 1952, would have any retrospective effect.

The terms of the offer are not subject to further negotiation.

Decision at Conference

In the event of rejection of the offer a settlement will only be possible by arbitration and the Ministry has stated that it can see no likelihood of arbitration proceedings taking place before December, 1951 at the earliest. Any effective settlement by arbitration might therefore be as long delayed as a further nine months. The proposal is to be submitted for a decision to a Conference of Pharmaceutical Committee Representatives convened in London for July 25. The decision of the Conference will bind all contractors.

The offer falls short of the terms the Conference previously authorised the Central N.H.S. Committee to accept as minimum (viz. a return to the pre-May 1, 1950 terms) and also falls short of the terms claimed by the Central N.H.S. Committee as a result of the representative dispensing costs survey carried out in Octo-

ber-November 1950. The Committee could therefore have rejected the offer outright; that course has not been adopted for two main reasons, viz:—

(1) Many contractors are under heavy financial stress as a result of current N.H.S. payments being based on the provisional 16 per cent. rate of oncost. Those stresses will be increasingly felt over the six to nine months which would still have to pass before there could be any real hope of a settlement by arbitration. In an arbitration, the Ministry's starting point would be 16 per cent. as the justifiable oncost rate and the current Drug Tariff or lower fees. The present offer would be "dead" and completely withdrawn. (2) Whatever the merits of the case that could be put up on behalf of contractors in arbitration proceedings, there is no certainty that, so far as the dispensing fee issue is concerned, an arbitration award would be antedated to May 1, 1950, or earlier.

The choice between acceptance and rejection is as difficult a problem as has ever faced contractors through their representative Committees, both local and national. To many contractors, the stabilisation of terms up to at least the end of March, 1952, will have a strong appeal in the present state of political and economic uncertainty in National affairs. The ending, forthwith, of the uncertainty as to the basis of payment for services provided since May 1, 1950, and the certainty that additional money would be paid off the arrears many months before it otherwise could be are factors which cannot be ignored. Acceptance would, however, remove any possibility of reopening now or in the future the question of an adjustment in remuneration retrospective to the inception of the service in July 1948. If the matter went to arbitration, an average fee of 1s. 3d. could be claimed from the inception on the basis of the original differential between Scotland and England and Wales.

The national net ingredient cost for the whole of 1950 will probably prove to be a little over 20d. per prescription. For the contractor whose net ingredient value per prescription is about 20d. the Ministry's proposal is equivalent to an increase from the provisional rate of 16 per cent. to a 30 per cent. oncost rate, with no change in dispensing fees. To reduce the problem solely to terms of immediate £ s. d. the

table below gives an approximation to what is involved if the offer is accepted.

If contractors' overall average prescription value (including container allowance) for May 1950 onwards, on the provisional 16 per cent. oncost rate has been:—	Then on acceptance of 25 per cent. oncost plus an additional fee, the overall average prescription value for the same prescriptions would rise to:—	Whereas, the pre-May 1, 1950 terms, 33 per cent. oncost and no change in fee, would have produced:—
2s. 6d.	2s. 8½d.	2s. 8½d.
3s. od.	3s. 2½d.	3s. 3½d.
4s. od.	4s. 3½d.	4s. 5d.
5s. od.	5s. 4½d.	5s. 6½d.

In assessing the significance of these figures some account has to be taken of the increased volume of dispensing which has accrued from the National Health Service. A further material factor is the extent (yet unassessable) to which the average net ingredient cost of prescriptions has risen in 1951 over the 20d. average in 1950.

Advantages and Disadvantages

The disadvantages of rejection may be summarised as follows:—

1. Many months delay in getting a settlement by arbitration, "final" payments and payments on account being based on the provisional 16 per cent. oncost rate until the arbitration award was issued and effect could be given to it.

2. The Ministry's offer would be "dead." In arbitration they would take 16 per cent. oncost and either existing Drug Tariff or even lower fees as their starting point. The Contractors' Committee would have to undertake in late 1951 a further exhaustive survey into dispensing costs then current.

The advantages of rejection are:—

There would eventually be a settlement on the merits of the Ministry's and the contractors' cases. If the contractors' case is as strong as it is claimed to be, then an arbitration award would give something better than the present offer. Although the offer by the Ministry is "without prejudice" to their rights to enter arbitration proceedings on lower figures than their offer, it is a fair assumption that the Ministry's offer is less than the Ministry thinks might be awarded in an arbitration.

It should be remembered that the number of N.H.S. prescriptions in Scotland averages out at 9,500-10,000 per pharmacy per annum, whereas in England and Wales the number averages out at 16,000-17,000 per pharmacy per annum.

The Committee ask contractors to forbear from writing on lines which necessitate a detailed reply. Further information or guidance which becomes available will be issued to the pharmaceutical Press for publication. Details of the offer were notified to secretaries of local Pharmaceutical Committees in a circular dated June 29.

PRICE CHANGES

THE following are notified:—

	Doz.	Tax	Retail	Doz.	Tax	Retail
<i>Allen & Hanburys, Ltd. (from July 1).</i>						
Ferrodic, 8-oz. jar	36	0	16	5	0	7
16-oz. jar	63	0	19	8	9	8
(dispensing pack)	3½ lb.	210	0	5	10	4
Calcdic, 8-oz. jar	30	0	10	4	7	5
16-oz. jar	54	0	16	8	3	6
(dispensing pack)	3½ lb.	170	0	4	9	6
<i>The British Drug Houses, Ltd. (from June 29).</i>						
Multivite, bottle, 50	28	0	Nil	3	6	7
<i>Continental Laboratories, Ltd. (from July 1).</i>						
Stannoxy tablets, 80	36	0	11	7	5	6
500	168	0	54	0	25	6
1000	324	0	104	0	49	2
<i>County Perfumery Co., Ltd. (from June 30).</i>						
Brylcreem, tub, junior	1	8				
medium	2	6				
large	4	6				
Brylfoam, tube, large	2	0				
Rowlands Macassar oil	6	6				
Hilton bleach	6	6				
<i>Evans Medical Supplies, Ltd. (from July 2).</i>						
Hepatex oral, 4 fl. oz.	10	6	14	0		
Hepatex with iron, 2 fl. oz.	6	6	8	8		
Neo-Hepatex, 3 x 2-mil	8	6	11	4		
3½ lb.	15	x 2-mil	62	0	each	82
10-mil	12	4	16	5		
25-mil	28	0	37	4		
<i>Heinz strained foods (16 varieties) can</i>						7
<i>H. J. Heinz Co., Ltd. (from July 2).</i>						
Tek tooth-brush, bristle:						
1 doz.	...	18	0			2
6 doz.	...	17	6			3
12 doz.	...	17	1			3
24 doz.	...	16	2			3
Tek bristle junior	...	8	0			1
Tek Nylon:						
1 doz.	...	12	6			7
6 doz.	...	12	3			7
12 doz.	...	11	10			7
24 doz.	...	11	3			7
Tek Nylon junior	...	8	0			1
<i>May & Baker, Ltd. (from July 9). (U.K.).</i>						
M & B 693, tablets:						
25 x 0.125 gm.	...					9
500 x 0.125 gm.	...					0
25 x 0.50 gm.	...					0
100 x 0.50 gm.	...					0

	Doz.	Tax	Retail		Doz.	Tax	Retail	
500 x 0.50 gm. ... powder:		52	6	Sulphatriad tablets:				
25 gm. ...	5	6		25 x 0.50 gm. ...		4	3	
500 gm. ...	104	6		100 x 0.50 gm. ...		16	6	
15 gm. sterilised	4	0		500 x 0.50 gm. ...		80	0	
Thiazamide tablets:				Parke, Davis & Co., Ltd. (from July 2).				
25 x 0.125 gm. ...		1	9	Adrenaline and Chloroetone				
500 x 0.125 gm. ...		30	0	suppositories, box of 12		7	4	
25 x 0.50 gm. ...		2	0	Adrenaline chloride solution, 1:1000, 10 c.c. vial		2	3	
100 x 0.50 gm. ...		10	0	Adrenaline suppositories				
500 x 0.50 gm. ...		45	0	Box of 12				
60 x 0.50 gm. ... powder:		6	6	Vi-Siblin, of 4-oz. jar		5	0	
25 gm. ...		5	0	1-lb. jar ...		4	7	
100 gm. ...		19	6	Yellow oxide of mercury		15	11	
500 gm. ...		89	6	eye ointment, 1 per cent., with atropine, 1 per cent., tube ...		1	6½	
15 gm. powder sterilised		4	0					
15 gm. powder sterilised with 1 per cent. proflavine hemisulphate								
Sulphadiazine tablets:		4	3	Prichard & Constance (Mfg.), Ltd. (from June 30).				
100 x 0.125 gm. ...		10	0	Amami wave set, green				
25 x 0.50 gm. ...		4	9	or spt. ...	7	6	1	6
100 x 0.50 gm. ...		18	6		14	7	2	11
500 x 0.50 gm. ... powder:		90	0	Silvikrin, pure ...	64	3	12	6
25 gm. ...		9	3	lotion ...	14	0	2	9
100 gm. ...		36	6	hair cream ...	24	9	4	10
500 gm. ...		179	6	Kemt ...	23	1	4	6
10 gm. sterilised ...		4	0	refill ...	25	8	5	0

Other prices in leaflet.

PROPRIETARY ARTICLES TRADE ASSOCIATION

Alterations to Protected List (Part 1)

(I.R.P.=Inclusive retail price)

	Doz.	Tax	I.R.P.	
	s. d.	%	s. d.	
Hommel's Haematoxin & Drug Co.				
Hematogen ...	60	0	33½	8 8
Iglodine Co., Ltd.				
Iglodine antiseptic, 8-oz.	16	9	33½	2 4
16-oz.	28	6	33½	4 0
quart	60	9	33½	8 6
½-gall.	88	6	33½	13 0
1-gall.	159	0	33½	23 6
£2 10s. assorted orders—				
8-oz., 16s., 4d. doz.; 16-oz., 23s., 4d. doz.				
Ointment, tin ...	11	3	33½	1 7
jars ...	28	6	33½	4 0
	46	0	33½	6 6
	65	0	33½	9 0
Embrocation ...	19	0	33½	2 9
Eye lotion ...	16	9	33½	2 4
Salicylated ...	19	0	33½	2 9
Nasal douche ...	15	9	Nil	1 9
First aid outfit ...	34	6	Nil	3 9
Pastilles, tin ...	9	0	33½	1 3
Igloplast ...	12	0	Nil	1 4
International Chemical Co., Ltd.				
Bisodol powder ...	14	6	33½	2 0
	36	6	33½	4 3
Rev. George Jack (agents: Raines Clark & Co., Ltd.).				
Helios ointment ...	13	6	33½	1 11
	45	0	33½	6 4
	105	0	33½	14 11
H. & T. Kirby & Co., Ltd.				
Aspirin tablets, 25's ...	4	3	33½	10½
100's ...	9	9	33½	2 8½
Staphoids ...	22	6	33½	3 3
Bob Martin, Ltd....				
Canker powder ...	16	6	33½	2 3
Dog soap ...	6	4	33½	1 0
W. T. Owbridge, Ltd.				
Prices in Northern Ireland:—				
Owbridge's lung tonic, family size ...	28	0	33½	3 11
Pastilles ...	6	8	33½	1 0

Pharmax, Ltd.

Diuromil, 8-oz. (new size) 90 0 33½ 12 6

A. F. Sherley & Co., Ltd. (Additions).

Roundworm capsules for puppies and dogs up to 14 lb. 7 3 33½ 1 0

Over 14 lb. 14 6 33½ 2 0

Tapeworm tablets for dogs and adult cats 14 6 33½ 2 0

Yeast tablets for dogs ... 15 9 Nil 1 9

Hints to dog owners (book) 9 0 Nil 1 0

Bell & Sons, Ltd.

George Bell's blood purifying salts for dogs

9 powders 6 2 33½ 0 10

30 powders 14 9 33½ 2 0

George Bell's Katnips condition powders for cats,

9's 6 2 33½ 0 10

Buffham's Preparations Resinol ointment ... 33 3 33½ 4 8

57 0 33½ 7 11

W. B. Cartwright, Ltd.

Moorland aspirin tablets,

25's 5 0 33½ 0 9

50's 9 0 33½ 1 5

Cephos, Ltd.

Cephos powders and tablets:—

8 powders or 16 tablets 12 0 33½ 1 8

21 powders or 42 tablets 28 6 33½ 3 11

21 doses tablets at 5½d. for 2 doses ... 28 6 33½ 3 11

110 doses powders or tablets at 5½d. for 2 doses ... 150 0 33½ 20 0

J. G. Ingram & Son, Ltd.

Agrrippa spiral green band

teats, gross ... 89 6 Nil 0 11

valves, gross 83 0 Nil 0 10

William R. Warner & Co., Ltd.

Veganin tablets, 10's ... 14 3 33½ 2 0

20's ... 23 3 33½ 3 3

WAGES IN NORTHERN IRELAND

WITH the agreement of the Joint Council of the Ulster Chemists' Association, a modification became effective on July 1 to the standard wages, terms and conditions of employment to be observed by Association members, as defined by National Arbitration Tribunal Award No. 269 (December 1943):—

YEAR	APPRENTICE (yearly)	UNQUALIFIED ASSISTANT (weekly)	ASSISTANT PHARMACEUTICAL CHEMIST (weekly)
First ...	£ 52	£ s. 4 15	7 10
Second ...	78	5 5	8 0
Third ...	104	5 15	8 10
Fourth ...	39	6 15	9 0

The wages to be paid to a pharmaceutical chemist are to be computed according to the number of years worked in pharmacy after completion of apprenticeship (not after date of qualification). (Time spent in day classes at a technical school does not count.)

Qualified Personnel

TYPE OF EMPLOYMENT	SHOPS WITH TWO OR LESS FULL- TIME STAFF (weekly)	SHOPS WITH THREE OR MORE FULL- TIME STAFF (weekly)
	£ s. 10 0	£ s. 11 0
Managers ...	11 0	12 0
Managers for executives ...		
Pharmaceutical chemist superintendents who are directors of limited companies ...	13 10	14 0
Locums ...	10 10	—

Some members are already paying higher wages than the existing scale; the increased scale does not place them under obligation to pay a corresponding increase above the new scale.

Unqualified Shop Assistants (Female)

AGE (YEARS)	WAGE (weekly)	AGE (YEARS)	WAGE (weekly)
	£ s.		£ s.
15 ...	1 10	21 ...	3 0
16 ...	1 15	22 ...	3 5
17 ...	2 0	23 ...	3 10
18 ...	2 5	24 ...	3 15
*19 ...	2 10	25 and over	4 0
20 ...	2 15		

* At this point increments are subject to previous experience.

The Executive Committee strongly recommends that no male unregistered assistants (new entrants) shall be admitted to pharmacy.

Conditions of Employment. — Normal working week: Forty-six hours including Sunday. Apprentices granted facilities to attend lectures during working hours. Work done in excess of forty-six hours in any week at rate of time-and-one-half. (To include any week in which rota service is worked, but employer may have option of allowing time off in lieu of extra hours.) Employees required to work on any of the six fixed holidays receive payment at double time. Executive Committee does not admit principle of payment for rota service as such. Twelve working days holidays with pay to be given in each calendar year in addition to six fixed holidays. No deduction to be made from the wages of an employee who has worked for less than forty-six hours in any week if his employer's hours of business do not permit the working of a full forty-six-hour-week. A *pro rata* deduction may be made by an employer from the wages of his employee who voluntarily agrees to work less than forty-six hours per week if the number of hours actually worked is less than the number of the employer's hours of business. Employees other than registered apprentices to give or receive four weeks' notice to terminate employment, the four weeks to count from date of giving or receiving of such notice.

Wages during Sickness

In the view of the Executive Committee no custom exists in retail pharmacy in Northern Ireland imposing an obligation on an employer to pay wages to an employee during the period of an employee's illness unless the contract of service entered into with the employee provides for such payment or a special arrangement is made. Where an employer at present pays wages during illness and he desires to discontinue this arrangement he should enter into a new contract of service with his employees. An acknowledgment in writing signed by each employee and showing that wages are not to be paid during illness will be of assistance if any question should arise.

Binding on Members

The foregoing wages, terms and conditions are binding as minimum on all Members and Associates of the Ulster Chemists' Association, and non-observance may form the basis of civil action. In the event of any alleged breach being brought to the notice of the Joint Council of the Ulster Chemists' Association the Ministry of Labour will be informed.

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INFORMATION WANTED
 The Editor would appreciate information about suppliers of the following items:

Zephyr boudoir razors
 Duke brand herbal tea
 Alluvant
 Zylotox



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No. 3724

Compromise or Combat?

AN extremely difficult and delicate decision now lies before chemist contractors in England and Wales. On p. 10 we give the terms proposed by the Ministry of Health for a settlement, without resort to arbitration, of outstanding objections to the present provisional basis of remuneration for pharmaceutical services under the National Health Service.

A first sight of the proposals may cause a sinking of heart among chemists, in contrast to the mood of hope engendered by the recent award in Scotland. The suggested terms are less favourable than that award. They provide for the same twenty-five per cent. oncost (against the 16 imposed but resisted in England and Wales since May 1, 1950). But they increase by only one penny per prescription the dispensing fee (against a rise from 1s. 3d. to 1s. 6d. in average fee in Scotland). And whereas the Scottish award raised the container allowance to 2d. for each item on a prescription, the Ministry's settlement proposals for England and Wales leave it unchanged at 1½d., with an option for chemists to return to the deposit system they abandoned with such a sigh of relief when N.H.S. first replaced N.H.I.

That Scotland not only assumed but has held the initiative is demonstrated by the proviso that the proposals are conditional on being accepted as a full settlement until April 1, 1952, or longer, "unless Scottish contractors apply before that date for a further increase in remuneration." It will not be lost on chemists south of the border

that Scotland gained the day by (a) solidarity, (b) readiness to hold out for whatever time was necessary, and (c) strong and skilful leadership. Given those foundations, there is little doubt that their English and Welsh colleagues could wrest more from the Government than the present proposals offer. Victory would be won, of course, not direct from the Ministry, but through resort to arbitration after the Ministry had rejected counter-proposals, as it assuredly would if they differed materially from its own offer.

The questions that have to be weighed are whether what would be gained would, in fact, be near to the Scottish award. The outcome of any fight on this matter depends on factors in which there are both an element of chance and an element of siege. There is no guarantee that the award would be antedated to May 1, 1950. And financial hardship will certainly be prolonged if the matter stands undecided while an Arbitration Tribunal is appointed, hears evidence, and decides.

To fight to the last ditch would be an attractive policy to adopt, but it needs to be entered into with eyes open and with the solid backing of all. Only contractors themselves can decide to adopt it, and even they should not decide in haste. It is noteworthy that the N.P.U., while referring the decision to the free vote of a conference of Pharmaceutical Committee representatives called for July 25, itself sounds a note of caution.

Hope of Whooping-cough Control

EXTENSIVE controlled trials by a Committee of the Medical Research Council (see p. 25) into the prevention of whooping-cough by vaccination have reversed the previous findings of the Committee and broadly confirmed the results of doctors in America that valuable protection can be afforded by vaccination. A notable feature of the results is the apparent differences in potency of vaccines prepared by various methods. While the selection of subjects and conditions of control of the trial displayed the Council's usual thoroughness, the question must be asked whether the trials would not have been of greater value if the sources of

supply (three in number) had been widened to include a broader range of commercially available material. One well-known British hospital source is conspicuous by its absence from mention in the report. A possible opportunity of comparing its potency with that of a successful American sample (prepared from solid medium) in further trials now being undertaken has been missed, though the Committee has admitted that there may be methods of preparation "equally satisfactory or even better."

Overseas Trade in May

UNITED KINGDOM exports of all classes of merchandise in May were valued at £229.8 millions—an amount just below the highest (April) figure—and £27.1 millions above the average for the first four months of the year. Roughly half of the increase is attributable to higher prices. Imports during the month (£338 millions) showed an increase of £311.5 millions over April, partly as the result of a further 4 per cent. increase in import prices, and partly through increased volume (6 per cent. more than in April and 11 per cent. above the January-April average). Re-exports amounted to £11.4 millions, bringing the total for the year to £55.3 millions.

In the chemicals, drugs, dyes and colours field exports in May reached a record level of £13,354,473, against the previous highest total of £11,438,400, recorded for April. India was the principal market, taking chemicals to the value of £1,009,418, with the United States second at £989,448. The figure for manufactured drugs, medicines and medicinal products (£3,210,528) was also a record, being £464,158 more than the previous highest total registered in April; proprietary medicines reaching the record figure of £608,563 (£8,557 more than for April). The exports of quinine were, at £23,326, lower than in May 1950 or May 1949. Exports of aspirin totalled £59,280, against £44,660 in May 1950 and £39,891 in May 1949. Insulin exports (£62,041) were up on May 1950 (£55,270) but well below April 1951 (£82,679). Penicillin salts were exported to a value of £515,675 (2,796,916 mega units). In perfumery and toilet preparations (excluding perfume

spirits, essential oils and soap) exported reached the record figure of £599,857 (against £530,512 in April 1951 and £325,578 in May 1950).

Zanzibar Beeswax

A REPORT upon a sample of beeswax sent by the Director of Agriculture, Zanzibar, to the Colonial Products Advisory Bureau (Plant and Animal) in London was published recently in the Bureau's quarterly journal (1950, Vol. 1, No. 3). The sample had been purchased in Pemba. Results of an examination showed that the physical and chemical characteristics conformed to the British Pharmacopœia, 1948, requirements for *cera flava*. Merchants in the wax trade, to whom portions of the sample were submitted, were of the opinion that the wax was of good quality and that supplies would meet with a ready sale. The main sources of beeswax since the war have been Tanganyika (Dar-es-Salaam), Portuguese West Africa (Benguela) and the Sudan. Supplies have been short for some time and market prices high. A further supplier, particularly one in the Colonial Empire, would, therefore, be very welcome, though it appears that supplies are not new to commerce but have been shipped from the mainland either from Dar-es-Salaam or from Mombasa (Kenya) and have, therefore, lost their identity.

1851 Recalled

AMONG a number of curious inventions of the past that are reappearing in exhibitions during the Festival of Britain is a Leech-operated Tempest Prognosticator. Leeches, of course, were once part of a medical man's stock-in-trade; and Dr. Merryweather, of Whitby, had the idea of exploiting their well-known sensitivity to the approach of thunderstorms. In his Prognosticator he arranged in a frame twelve bottles, each containing a leech, and each having an open tube at the top. The apparatus is described as having looked not unlike a large cruet. At the approach of a thunderstorm, at least one leech rose without fail to the top of the bottle with sufficient vigour to displace a piece of whalebone and cause a bell to ring. So even an electric storm could prove merry weather.

SHEEP'S CLOTHING

By Hubert Blore

ON June 15 an innocent-sounding announcement came over the air on the B.B.C. news bulletin. The President of the Board of Trade had announced that day in the House of Commons that the Government would next session promote a Bill to make minimum retail price maintenance by manufacturers or trade associations illegal. More innocent still were the comments that appeared in the Press. The small shopkeeper was to be "Freed from this tyranny" and encouraged to make his business more efficient.

So the protection and guarantee of a living wage afforded by the Proprietary Articles Trade Association and the work of the late Sir William Glyn Jones are to be swept away, and an era of unrestricted price-cutting is to return. Few pharmacists now in business will remember the widespread misery and countless bankruptcies that littered the pharmaceutical profession in those early price-cutting days, when "patent" medicines were often sold below cost price or for a 5 per cent. profit. It is appalling to think that, after fifty years of progress towards a decent standard of living, a reputedly democratic and progressive Government should condemn in this manner a profession that has served the nation so well. It would appear that controls when applied by the Government to almost every business are beneficent measures, which only become tyranny when they are applied by a trade organisation for the welfare of its members.

Driving out the "Small Man"

If the true purpose behind this measure is to drive out of business the small independent units, and to concentrate the pharmaceutical distributive trade in the hands of one or two vast organisations whose tentacles spread all over the land, it should prove appallingly successful. But let us know this for its true purpose. Let us know our enemies. Let there be no more talk of "aiding us to become more efficient." That sheep's clothing is altogether too skimpy to deceive.

Most chemists are exceedingly efficient in a small way. But efficiency will not save us from extinction. Would the promoters of the Bill themselves suggest that the most efficient man on earth with £2,000 can compete with organisations which count their capital in millions—that

is, unless there is an assurance that they sell only at the same retail price? It does not take a financial genius to foresee what will happen as the great organisations steadily reduce their retail prices beyond the margin which is necessary for the small man to exist.

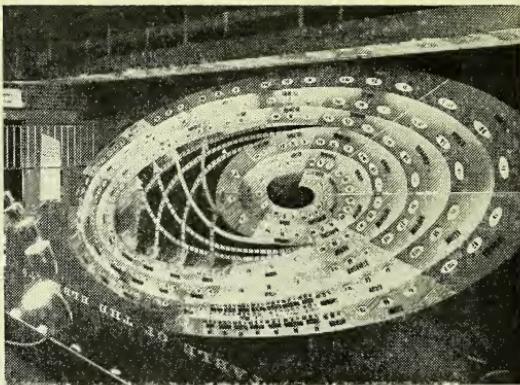
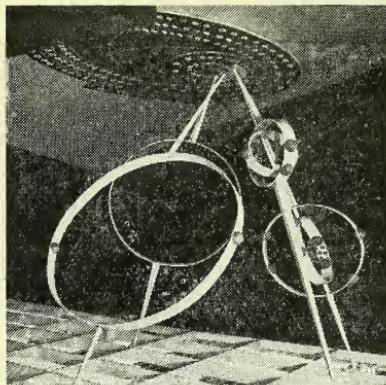
An Enigma

At this moment in our history the public, whose incomes are crippled by inflation, will be eager to seek out the cheapest source of supply. Were this measure being backed by a Government interested in the promotion of big business it would be understandable. But its backing by a school of political thought interested in the welfare of the weak and the small is an enigma. There can be few harder "workers" in the country than the one-shop pharmacist. He has no security but his business acumen, and no pension beyond what he can save—and that, in these days of inflation, is too often nothing. He can never hope to save enough to retire and must work a six-day week until he drops. He is financing the dispensing services of the nation because the pricing bureaux are ten months behind with prescription pricing. When ill he cannot obtain the services of a "locum" and usually staggers on alone with a temperature that would put the more cosseted trade union "worker" on sick pay for a month.

And that is the type of "wicked profiteer" who will suffer most from the proposed measure. That is the "inefficient unenterprising trader who wants to be protected against competition."

If this Bill becomes law the pharmacist can write off his "patent" medicine and cosmetic trade. In fact, he can write off everything except his own proprietaries, his counter prescribing and his official dispensing (and there, as I pointed out in an earlier article, health centres will compete as soon as bricks and mortar are available).

Revised Booklet on Pensions.—The Ministry of Health's booklet A.L., which explains the allocation of pensions by persons in the National Health Service superannuation scheme, has been revised to accord with the N.H.S. (Superannuation) Regulations, 1950. Copies of the memorandum are obtainable from H.M. Stationery Office (price sixpence each).



At the Festival Exhibition of Science, South Kensington, London. Displays representing the periodic classification of the elements.

FESTIVAL AND OTHER EXHIBITIONS

THE Festival of Britain exhibitions hold many features of trade and professional interest to visitors, as the summaries given below will suggest. In addition, there have recently been in London a variety of smaller exhibitions of lesser duration but of equal or greater importance, perhaps, to the business community.

South Bank Exhibition

THE principal sections of the South Bank Exhibition devoted to advances in the pharmaceutical and allied fields in which Britain has played a leading part are the Health Pavilion and the Physical World section inside the Dome of Discovery. If, after entering the Dome, the visitor takes the escalator to the top gallery, he may look down upon a vista of illuminated exhibits dealing primarily with discovery and exploration in the earth and universe. A glass absorption tower used for concentrating hydrochloric acid (Quickfit & Quartz, Ltd.) serves as a landmark for the Physical World section. In that section the visitor may either investigate the structure of matter as illustrated in carbon and carbon compounds, or may see how electron contours within molecules can be used to obtain a 3-dimensional map of such substances as penicillin, the structure of which is shown in a model. It is explained that the structure has been devised by the combination of chemical and x-ray methods.

An adjacent section deals with apparatus old and new, the new including some semi-scale glass apparatus.

Alchemy and the Beginnings of Science

An alchemists' laboratory, complete with retorts and bottles, iron mortar, furnaces and crocodile, throws into relief the gradual emergence of chemistry and physics in the 17th century from the mysticism of alchemy, which is the theme of a mural "The Beginnings of Science" that can be seen opposite. Sir Isaac Newton, representing physics, and Robert Boyle, representing chemistry, are portrayed. Drug jars and pill tiles from the Wellcome Historical Medical Museum occupy a glass case. In the section devoted to the Physical World also, ancient Egyptian and modern weights are contrasted and there is a modern micro-chemical balance (L. Oertling, Ltd.). The work of Boyle, Black, Cavendish, Priestley and Dalton is traced, showing how "our knowledge of the structure of matter and the conception of atoms, molecules and elements" arose.

A mural devoted to the synthetic chemical industry indicates the relation of such compounds as aspirin, saccharin and DDT to dyes and other products of the industry. Modern chemotherapeutic drugs and vitamins shown include the products of many well-known manufacturers (May & Baker, Ltd., Dagenham; Imperial Chemical Industries, Ltd.; Burroughs Wellcome & Co.; Roche Products, Ltd.; The British Drug Houses, London; Glaxo Laboratories, Ltd.). Packed products of the goods presented for sale are also on show, including aspirin and saccharin tablets of Burroughs Wellcome & Co., Scrubbs' ammonia, and Didit in-

septicide. A display case is devoted to the catalytic production of ammonia in Britain. Other subjects dealt with in the section include the synthesis and preparation of vitamins, the sulphonamides and the sulphone drugs. Among the exhibits in this section are Sulphatrone, Thiazamide, Be-flavit, and crystalline vitamin B₁₂.

Demonstrations illustrate wetting and emulsifying properties of colloids.

Developments in Physics

The National Physical Laboratory has provided a model of apparatus used to prepare synthetic chemicals from simple substances "labelled" with radioactive-carbon 14, which act as tracers in the study of chemical and biochemical reactions. One part of the exhibit shows where the carbon dioxide is charged into Geiger-Muller tubes for measurement; two further sections show where the chemical reactions are brought about. A distillation apparatus (to illustrate modern laboratory equipment) is seen in operation. There are a full-scale model of Hooke's original compound microscope of 1665 and a model of an early camera used by Fox Talbot (both from the Science Museum, London, S.W.7.).

In the section of the Dome of Discovery devoted to the Land, Britain's contribution to the conquest of disease is shown by drugs to combat sleeping sickness, malaria and leprosy (Burroughs Wellcome & Co.; Herts Pharmaceuticals, Ltd.; Howards & Sons, Ltd.; Imperial Chemical (Pharmaceuticals), Ltd.; May & Baker, Ltd.). In exhibits to illustrate Britain's exploration of the seas chemistry is represented by various alginate products (Alginate Industries, Ltd.; Amalgamated Dental Co., Ltd.; Medical Alginates, Ltd.).

The theme of the Health pavilion is the maintenance of health and the restoration of the body to health by medicine, surgery and nursing. There are models of vitamin B₁₂ crystals, and of spores of penicillin mould (copied from models lent by Glaxo Laboratories, Ltd., Greenford). The Armour Laboratories have supplied a photo-transparency of vitamin B₁₂ and blood corpuscles. Sir Alexander Fleming, F.R.S., has provided the original plate of penicillin mould, while Sir Howard Florey, F.R.S., has lent photographs of the laboratory production of penicillin. Samples of penicillin products are provided by Boots Pure Drug Co., Ltd., the Distillers Co. (Biochemicals), Ltd., Speke, Liverpool, 19, and Glaxo Laboratories, Ltd. The progress

of anaesthesia is traced from John Show's ether apparatus to the most modern equipment and methods.

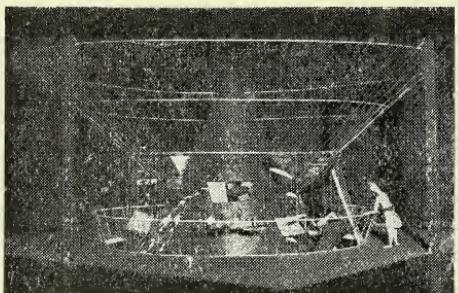
An outstanding exhibit in this pavilion is a fine bronze by Giulio Monteverde of Edward Jenner vaccinating his son, and in this section relics of Jenner are provided by the Wellcome Historical Medical Museum, which has also supplied a copy of the portrait of Lady Mary Wortley Montagu. Hypodermic syringes are exhibited by F. Froud & Sons, Ltd. In the pavilion are described the standards for antitoxins, vitamins, insulin, antibiotics, etc. To illustrate the importance of correct dosage, diagrams demonstrate how too large a dose of insulin produces a convulsion, too small a dose a coma, and the right dose relief. Vital statistics of the present day appear side by side with a 16th century work "Early Surgical Instruments" loaned by Guys Hospital, and the Wellcome Historical Medical Museum has provided somewhat gruesome reminders of the early days of surgery.

Chemicals From Coal

Chemicals and allied products, laboratory apparatus and instruments, are, however, to be seen in many parts of the exhibition. In the Country pavilion, for example, there are selective weedkillers and fertilisers; an absorptiometer (by Evans Electroelenium, Ltd.), and laboratory glassware and apparatus (by Townson & Mercer, Ltd.). The raw materials of the chemical sciences are displayed in the Minerals of the Island pavilion; coal by-products, also housed here, include benzene, phenol and resorcinol (Hopkin & Williams, Ltd.); hydroquinone and metol (Johnsons of Hendon, Ltd.); methyl salicylate (Monsanto Chemicals, Ltd.); chloroform (Duncan, Flock-



At the Festival Exhibition of Science: View of the section "Structure and Mechanism of Life."



At the Industrial Power Exhibition, Kelvin Hall, Glasgow. Model of head of million-volt machine to generate lightning.

hart & Co., Ltd.); procaine (Ward, Blenkinsop & Co., Ltd.); the Novutube cartridge and syringe (Pharmaceutical Manufacturing Co.); vitam' C (Roche Products, Ltd.); chloroxylenol and Disprin (Reckitt & Colman, Ltd.); aspirin (Boots Pure Drug Co., Ltd.); Howards & Sons, Ltd.; Burroughs Wellcome & Co.); saccharin (Boots Pure Drug Co., Ltd.); and Gammexane and dyestuffs (Imperial Chemical Industries, Ltd.).

In the introduction to the chemical platform in the same pavilion appear a Curlew III camera made by A. Kershaw & Sons, Ltd., photographic chemicals (Ilford, Ltd.); glass phials containing drugs (May & Baker, Ltd. Dagenham); Wisdom tooth and nail brushes (Addis, Ltd.); dentifrice (Pepsodent, Ltd.); bath cubes (Cussons, Sons & Co., Ltd.); hypochlorite disinfectant (Milton Antiseptic, Ltd.), and DDT insecticide (Shell Chemicals, Ltd.).

Hypodermic Needle Assembly

In the Power and Production pavilion, the "chapters" in the story include power, lighting, metals in the service of man, the distribution and make-up of industry, including research, design, testing, management, production and commerce. A large number of exhibits in plastic materials are displayed by the British Plastics Federation, and a hypodermic needle assembly is in operation, using semi-automatic machinery (S. & R. J. Everett & Co., Ltd.). Three girls working the machine operate in a double shift extending from 9.30 a.m. to 10 p.m. and output is fifty gross of needles per day. The machine assembles stainless steel tubes to the mount, impresses a number on the flats of the mounts, taper-reams the needle to fit the nozzle of the syringe, cleans the needle by compressed air and

throws the finished product out down a chute at the rate of one every four seconds. Two girls then test each needle for leakages or other faults.

Paragon industrial first-aid cases containing Elastoplast (T. J. Smith & Nephew, Ltd.), and other dressings, two removable cases for taking to the scene of accidents, are on display. Scientific instruments and apparatus displayed in this pavilion include a laboratory-graduated 2-litre measuring cylinder (H. J. Elliott); laboratory platinum ware (Johnson, Matthey & Co., Ltd.); laboratory porcelain and porous ceramic filters (Doulton & Co., Ltd.); an all-glass hypodermic syringe with standard interchangeable parts (Chance Bros., Ltd.); a self-contained d'Arsonval spot galvanometer (Cambridge Instrument Co., Ltd.); a glass "strip-action" still for production of high-purity distilled water (Townson & Mercer, Ltd.); and a film strip printer (Ilford, Ltd.).

A member of the scientific staff of the exhibition is available in the Information Building, which is close to the Chicheley Street Gate, to answer questions relating to the displays or to scientific activities arranged elsewhere as part of the Festival. Trade and technical information can also be obtained from this building or from the nine information points in the various pavilions.

Exhibition of Science

The South Bank Exhibition scientific displays illustrate British achievements by showing practical applications in the modern world, but in the Exhibition of Science at the Science Museum, South Kensington, the emphasis is on the background of fundamental knowledge contributed by the "pure" scientist. As at the South Bank, the narrative form it adopted so that the sequence of displays contribute as chapters in a book to the main story.

The theme is "what we know about the ways in which matter is built up and what we can do with this knowledge." The exhibition develops in three parts; (1) the physical and chemical nature of matter; (2) the structure of living things; and (3) "Stop Press," which shows some of the latest lines of thought in science and how they have grown from the underlying ideas that have been demonstrated in the earlier parts of the exhibition.

In the first section the eye turns first to a great representation in colour of the elements arranged in order of their mass

on the periodic table, while another large mural illustrates chemical analysis. The work of Dalton is described, and then the visitor is asked to consider the atom and its constituent parts. The physics of non-matter is explained and there are a number of ingenious demonstrations of the behaviour of light waves. Diagrams showing how atoms combine lead on to the architecture of crystals and to minerals and rocks, metals and their alloys. The element carbon introduces the visitor to organic chemistry, to photo-synthesis and the chemistry of life.

Without any sign of a sharp break the story changes to the structure of living things. Diagrams and models show the individual animal and plant cell and the way in which cell division takes place. Disease is not forgotten and the nature of bacteria and viruses is explained. Cell specialisation leads on to reproduction, animal and plant growth, and to heredity. Mutation of genes is shown by waltzing mice and by a yellow form of penicillium mould.

"Stop Press" Research

Stop Press demonstrates recent work in all branches of scientific research. As Dr. J. Bronovski states in the official guide-catalogue (price 2s.) "the new work . . . is an inspiration to remind us that in the last five years Great Britain has won the Nobel Prize for physics three times, for chemistry once, and her three discoveries of penicillin have gained the prize for medicine. A British philosopher has won the prize for literature, and the pioneer in nutrition the Nobel Peace Prize."

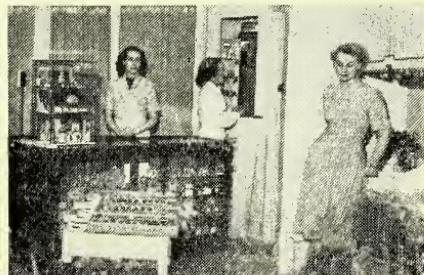
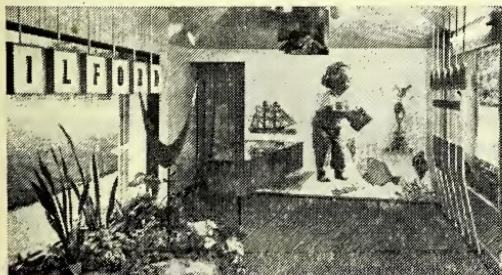
A laboratory display (furnished by Glaxo Laboratories, Ltd.), shows the models and the pilot apparatus first used to produce vitamin B₁₂ in Britain.

The exhibition has a science cinema, where forty-minute programmes are put on for the benefit of exhibition visitors throughout the day.

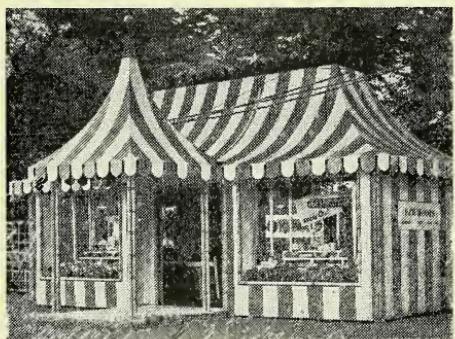
As in the South Bank displays, great attention has been given to decorations of walls and ceilings, to floor coverings and furnishings, and to lighting. In the South Kensington exhibition the motif of decorations has been derived from crystal structure diagrams.

Festival Pleasure Gardens

ALTHOUGH the Festival Gardens at Battersea Park, London, is concerned primarily with the lighter side of Festival celebrations, it includes a number of shops to cater for the requirements of visitors. At the powder pavilion of L. LEICHNER (LONDON), LTD., a full range of the company's products is available for make-up. The pavilion is staffed by a team of young actresses who will give free advice on choice of colours, etc., to use, and who will, for a charge, carry out the make-up. W. B. HUBBLE, chemists, Leicester Square, London, have been granted a concession to retail the Leichner products within the pavilion and they are also stocking a limited selection of medicinal products. BOURJOIS, LTD., have the only perfume shop in the gardens. At a ceremony on opening day (May 28), an actor in costume representing Andre Bourjois (the founder of the business in 1840) was portrayed with a basket of perfumes and cosmetics selling his wares to Miss Valerie Hobson. ILFORD, LTD., have a shop to cater for certain photographic requirements. Photographic enlargements feature prominently in the interior decorations of the pavilion and cut-out figures from other enlargements have been used to give a mural effect to the



Shops at the Pleasure Gardens, Battersea Park, London. Left: The film shop of Ilford, Ltd. Right: Powder pavilion of L. Leichner (London), Ltd., staffed by eight young actresses, with retail counter operated by W. B. Hubble, chemists, London, W.C.2. Packed medicines, etc., are sold to passers-by through a window.



At the Pleasure Gardens, Battersea Park, London:
Sales pavilion of Bourjois, Ltd.

walls. A range of the company's roll and cine films, text books on photography and items of photographic equipment is available.

Festival Photographic Exhibition

An exhibition "Photography in the Life of the Nation" is being held at the headquarters of the Royal Photographic Society, (organisers of the exhibition), 16 Princes Gate, London, S.W.7, and represents a contribution of the Society to the Festival of Britain. Accommodated in four rooms, the exhibition is divided into three sections and depicts a few of the outstanding events or landmarks in the development of photography and some of its applications in science and everyday life.

The first section deals with photographic history, and examples of the work of L. J. M. Daguerre, W. H. Fox Talbot, Paul Pretsch and Frederick Scott Archer are on view. A small showcase is featured in which are to be seen examples of early cameras, including those of Daguerre and Fox Talbot and a "detective camera" (*circa* 1890) used for the taking of surreptitious photographs while the camera is concealed behind the waistcoat. Also in the showcase is an actinograph invented by Ferdinand Hurter and V. C. Driffield (see *C. & D.*, March 17, p. 357).

In a section entitled "Photography in Modern Life" are photographs and displays dealing with the application of photography in the study of texture (of metals and of fabrics), infra-red and ultra-violet photography, the preparation of monochrome and colour portrait printing blocks, document copying, and aerial photography.

Generous space has been given to medical applications in a third section dealing with the contributions of photography to science. Photographs taken to compare a patient's physical appearance before and after plastic surgery, a view of a human larynx photographed via a laryngeal mirror and a photograph of an endovesical camera with bladder photographs, which it has taken, are among exhibits shown. Another application of visible light photography shown is stereoscopy. A small stereoscope with pictures of an affected eye shows how the three-dimensional effect helps in the location of foreign bodies. Examples are also shown of how infra-red photography helps to reveal structure immediately under the skin, and how ultra-violet photography is used to show the division of a single tumour cell. An x-ray photograph of a whole human subject is also shown. Other scientific applications of photography illustrated include x-ray diffraction photographs of crystal structures (including one of a penicillin compound), x-ray photographs showing the deposition of the shell on a hen's egg, electron microphotography of plant viruses, cosmic-ray and astronomical photography. The exhibition is open, admission free, until July 14 (9.30 a.m. to 5 p.m. daily except Sundays).

L.C.C. South Bank Exhibition

CHEMISTS will find much to interest them at the South Bank Past and Present Exhibition organised by the London County Council and held at County Hall, Westminster Bridge, S.E.1, during the period of the Festival of Britain. "London over the water" as the cockneys call it, has been for 300 years a centre for distilleries. Mark Beaufoy had a sweet wine and vinegar distillery on the site of Cuper's Gardens, North Lambeth, and in 1812 the firm (Beaufoys & Co.) moved to South Lambeth. A sideline was Beaufoy's Instant Cure for Tooth Ache, and a label exhibited shows that it retailed at 1s. 1½d. per bottle, "stamp included." The firm of Burnetts had a distillery at Vauxhall from the beginning of the 19th century until it was taken over by the Distillers Co., Ltd., in 1928. There were glass works in the 17th and 18th centuries in Vauxhall near Blackfriars Bridge and along Bankside. Bottle glass was a main product, and on the site of the new Bankside power station, where there was known to be a

glass house, fragments of apothecaries' bottles have been found. Other interesting exhibits are concerned with the brewing and pottery industries. During the early years of the 17th century the manufacture of English delft began in Southwark and Lambeth. Lambeth delft became popular, largely replacing pewter for domestic use. It was also used extensively by apothecaries for jars and pill slabs. John Doulton set up in business in Lambeth in 1815 and, though most of Doulton's ware is now made outside London, the Lambeth factory has continued to make stoneware.

After the discovery by Dr. John Snow, in experiments at Southwark Water Works, that cholera was water-borne, Henry Doulton experimented with the manufacture of non-porous glazed-ware pipes which could be jointed together without leakage.

An interesting exhibit describes the work of William Curtis who, in 1779, laid out a botanical garden in Prince's Meadows on the site of Waterloo Junction and the surrounding streets. Here Curtis prepared much of his "Flora Londonensis." Curtis was founder of the "Botanical Magazine." Pictures show a view of High Street, Southwark, being the ancient roadway leading from old London Bridge and "taken July 1830, previous to its removal for a new line of approach." One of them shows the shop of Atkinson, chemist, and on the floor above the premises of Maning, late Lawford, manufacturer of combs. A number of hospitals have sent exhibits. Those from St. Thomas's Hospital (which this year celebrates the fourth centenary of its refounding by King Edward VI) include a pewter jug dated 1872 which appears to be of about 1 gall. capacity, "used for the patients' beer." A Guy's Hospital display includes the hospital account book for 1740-41, which is open at a page showing the apothecaries' bills—"Druggs, spiritts, Grocery and spice, Chymical Medicines, Roots, Herbs, etc.; Oill & Rosin, Sweett and Linseed Oill, Soap and Mustard feed, Hogs lard, Lemon juice, Potters ware, Wax & Honey, Stretham water, Sives Stills. The apothecary; bill for Incidentalls, burnt hartshorn." Other items in the accounts give the cost of millipedes, opium, and valerian root. The display contains various surgical instruments, a gutta percha urinal (second half of the 19th century), a pewter urinal (18th century) and a medicine spoon (late 18th century), cupping glasses, etc. A curved glass

clinical thermometer (*circa* 1865) introduced by Sir Willam Aitken and made by L. Casella, is also shown.

Business Efficiency Exhibition

MECHANISATION to cut down labour costs was the keynote of the Business Efficiency Exhibition opened by the lord mayor of London in the Grand Hall, Olympia, London, on June 6.

Amongst the record-keeping equipment was an electrical visible-recording device by Remington Rand, Ltd., which, at the press of a button, selects the desired records tray from a cabinet holding sixty trays or slides containing 4,020 Kardex records. The tray is delivered to a working position at desk height and indexed keys on the desk close electrical circuits to bring the desired slide on to an extension track. Repetition of the operation returns the slide and brings a newly selected one automatically to the desk top. Among a wide range of duplicating equipment Roneo,



Model ships in ampoules: Mr. R. H. Biggs, second officer of T.S. "British Prince" at work on models shown later at the "Spare Time at Sea" Exhibition organised by the Seafarers' Education Service, on H.Q.S. "Wellington," London, recently.

Ltd., showed an electronic stencil maker by which an exact replica of any written, drawn or composite matter (which can include photographs) is transmitted to a metallised stencil by a series of electronic impulses in twenty minutes. From the stencil colour reproductions can be made on any ordinary duplicator suitable for taking coloured inks. A silent duplicator shown by Gestetner, Ltd., is operated by a 1/10 h.p. motor provided with finger-tip speed control. A switch makes it possible to change over immediately from very large to very small work. An automatic counter stops the motor on completion of the run. Ellams Duplicator Co., Ltd., showed a hand-operated duplicator with an automatic cleaner. A special device enables seven different thicknesses of ink to be printed, thus providing variations of emphasis. Block & Anderson, Ltd., demonstrated the Bandaretti duplicator for making copies of small originals without using ink or stencils.

A matching attachment designed to enable name, address and salutation to be matched into circular letters was demonstrated by Adrema, Ltd., and a machine which folds, inserts in envelopes any kind of letter, and then seals the envelope, was shown by Unifold Mailing Machines, Ltd. Amongst the franking machines were a small model for offices dispatching only a few letters daily, and an electrically operated model for larger organisations (Roneo-Neopost, Ltd.). A magnetic-tape sound recorder, demonstrated by Thermionic Products, Ltd., could be put to many uses such as recording conferences.

Human Factor in Industry

AN exhibition "Manpower: The Human Factor in Industry," presented by the Ministry of Labour and National Service at the Safety, Health and Welfare Museum, Horseferry Road, London, S.W.1, is open (admission free) until September 29. The exhibition portrays various aspects of vocational guidance and industrial training. An interesting section is that on industrial health which explains measures for protecting the health of employed persons, including compulsory notification of industrial disease, and research on health problems of employment. Barrier creams are shown to protect the hands of workers handling poisonous materials. The safe handling of chemicals is demonstrated by plastic safety jugs (Rediweld, Ltd., London, S.W.18) made of material which is

chemically inert to most acids and alkalis and designed to prevent splashing or spillage; and a hand carrier (General Electric Co., Ltd., London, W.6) for winches, made of aluminium with an interior fitted with rubber studs to prevent movement of the winchester and cushioning any blow that the carrier may sustain. A carboy discharger (Kestner Evaporator and Engineering Co., Ltd., London, S.W.1) is also shown together with a safety container and trolley (Gamma-Rays, Ltd., Smethwick) for radioactive materials. In another section fine laboratory work of the glass blower is exhibited.

Plastics Convention

THE first British Plastics Exhibition in which all sections of the industry took part was held recently at Olympia, London. The exhibition displayed raw materials, equipment, processes, and finished goods. A special exhibit, "Plastics Design and Use," organised jointly by the Council of Industrial Design, the British Plastics Federation, and "British Plastics," presented information under the headings: Properties, processes, applications, fabrics and fibres; and embodied a plastics "quiz" and information bureau.

At the inaugural lecture of a convention running concurrently with the exhibition, SIR BEN LOCKSPEISER (secretary, Department of Scientific and Industrial Research) said that the industry had a serious raw material problem. The production of synthetic materials had risen so rapidly that it was in sight of "outrunning its supply of raw materials." New processes developed in the oil industry, however, promised to provide the industry with a more abundant supply of raw materials at a relatively low cost. Other papers included the application of plastics in chemical industry, in packaging, and in medicine and surgery. PROFESSOR J. R. SQUIRE spoke on the use of Nylon film in "window" surgical dressings.

London Chamber Festival Exhibit

THE London Chamber of Commerce has staged a Festival of Britain exhibit, at its Cannon Street headquarters, to show the commercial and industrial structure of London and to explain the Chamber's place in it. By means of a pictorial map of the City visitors are helped to identify points of interest. An illuminated pictorial map of the City shows special Festival exhibits and other places of interest.

REPORT ON WHOOPING-COUGH VACCINATION

An investigation by the Medical Research Council into the prevention of whooping-cough by vaccines is described in the "British Medical Journal" (1951, 1, 1463-71). The investigation involved observations extending over two to three years on more than 7,500 children. Five batches of pertussis vaccine from three manufacturers were tested, and in the trials 149 vaccinated and 687 unvaccinated children developed pertussis. The attack rates per 1,000 child-months of observation were respectively 1.45 and 6.72, equivalent to a reduction in the incidence of the disease through vaccination of 78 per cent. The cases that occurred in the vaccinated groups were less severe and of less duration than in the unvaccinated. Though not designed to test the relative potency of vaccines, the trials indicated that batches of vaccine prepared by the Michigan Department of Health gave significantly greater protection than other preparations (one attack per 1,000 child-months among those inoculated with that vaccine to 7.3 and 10.8 in the unvaccinated; against ratios of 1:2.5 for the Sauer preparation, and 1:3.33 and 1:3.6 for two samples of a British commercial preparation). Vaccines prepared in Britain by the method described by Dr. Kendrick and colleagues, Michigan Department of Public Health, are under trial in Britain.

Test Subjects

The test children were aged six to eighteen months, and were divided into two groups, by random sampling, for inoculation with whooping-cough vaccine or for controls. They lived in ten areas.

Following the general plan of similar mass trials, pertussis vaccine, or (as a control) anticitarrhal vaccine, was injected into the respective groups, and none of the workers in the field knew whether pertussis, or control vaccine was being injected. After inoculation each child was visited at frequent intervals for two or three years by a nurse investigator, and after the last inoculation the mother was given a report slip in a stamped envelope addressed to the local health department with instructions to post it if the child had been in contact with or developed whooping-cough or any suspicious symptoms. Visits were then made to diagnose any attack which followed and to determine its severity if it proved to be whooping-cough, the

mother being asked to note the number of paroxysms during each twenty-four hours at the height of the disease.

Of all cases of whooping-cough seen during the trials 73.2 per cent. were mild in the vaccinated, against 24.1 per cent. in the unvaccinated. 44.3 per cent. of cases in the vaccinated had a cough lasting for less than six weeks, against 14.4 per cent. in the unvaccinated. There was no evidence of decreasing protection afforded by the inoculation, even after two years. With the plain vaccines no severe local or general reactions were observed, though in a number of children temperature rose within twenty-four hours, and in some the site of inoculation was red and swollen for one or two days. In none of the children did poliomyelitis develop during the arbitrarily chosen period two months after inoculation.

The Whooping-cough Immunisation Committee of the Medical Research Council states that variations in potency of the vaccines used may be related to factors in preparation (selection of strain, composition of medium, method of harvesting, growth and nature of the killing and preservative agents). They consider it inadvisable to adopt the Michigan method as a standard procedure, since other methods may be equally or more satisfactory. Whether there is correlation between a mouse immunisation test and protective properties in children is being investigated. The pertussis vaccine used was supplied by Parke, Davis Co., Detroit, the Michigan Department of Health, and Glaxo Laboratories, Ltd.; and the anticitarrhal vaccine by Burroughs Wellcome & Co.

FIFTY YEARS AGO

Sulphur in Venezuela

(From the C. & D., July 6, 1901)

THE American Consul at Puerto Cabello says that the company known as the "German Venezuelan Sulphur Company," which was floated in Germany, with a capital of 2,000,000m., for the purpose of exploiting the immense sulphur-deposits situated near Carupano, in Venezuela, is actively at work setting up the aerial cable by which the sulphur will be carried from the mine to the port, a distance of about 18 kilometres (11.18 miles). The landing wharf is finished, and the managers only await the termination of the wire-rope railroad to begin loading on a large scale.

COMPANY FINANCE IN THE PAST HALF-YEAR

By a Financial Correspondent

ORDINARY shares of manufacturing chemists and drug trade companies participated in the active and buoyant conditions evident in all industrial sections of the London Stock Exchange during the first half of the present year. The movements in favour of holders were of sufficient extent in several instances to establish new high levels. A feature was supplied by W. J. BUSH & CO., LTD., £1 ordinary, which closed 37s. 6d. higher at the new high record price of 122s. 6d. At one time outright business was confined to selling orders in the absence of any shares on immediate offer. The company is capitalised at an issued and paid up amount of £800,000, of which £250,000 is in the form of ordinary shares and £50,000 in "A" ordinary. Firmness was also evident for GLAXO LABORATORIES LTD., ordinary which closed 23s. 3d. higher at 82s. 6d., after having been transferred as high as 90s. 6d.; the capital structure consists of an issued and paid up amount of £1,496,350 of which £796,350 is in 10s. ordinary form.

Large-capital Concerns

Elsewhere, BEECHAM GROUP, LTD., 2s. 6d. deferred finished 2s. 6d. better at 16s. after having been dealt in up to 16s. 6d. This concern is one of the most heavily capitalised in its section, as the issued and paid up amount is £5,012,500. This figure subdivides into £1,512,500 in 2s. 6d. deferred plus £3½ millions in two classes of preference. The ordinary shares of BOOTS PURE DRUG CO., LTD. (another big capitalised concern as the issued amount totals £3,320,000, of which £1,920,000 is in 5s. ordinary) also made a good showing as they closed 8s. 6d. higher at 57s. 3d., i.e., a new high level. A gain of nearly 3s. was achieved by THE BRITISH DRUG HOUSES, LTD., 5s. ordinary, which closed at 10s. 1½d., after having been transferred up to the new high level of 11s. 4½d. in the meantime.

Amongst medium and lower capitalised concerns EVANS MEDICAL SUPPLIES, LTD., 5s. ordinary closed 5s. higher at 13s., after having been dealt in up to 13s. 3d. Apart from subsidiary companies in the North of England, Ireland, Brazil, the Near East, South Africa and India, it also controls George Holliday & CO., LTD. (lime juice importers) and Chas. Midgley, LTD. The issued and paid up capital totals £549,645

of which approximately £307,000 is in 5s. ordinary. Elsewhere in this section, SMITH & NEPHEW & ASSOCIATED CO'S., LTD., 4s. ordinary finished 8s. 3d. higher at 28s. 3d., i.e., almost their existing highest. The issued and paid-up capital totals £650,000, £500,000 of which is in ordinary. BARCLAY & SONS, LTD., ordinary moved against the general trend by closing 7s. 6d. lower at 30s. Dealing conditions here, however, have been restricted for some considerable time, so the move and the resultant quotation cannot be regarded as having been adequately tested or established by actual business. The capitalisation consists of only £54,151, of which £19,171 is in £1 ordinary, the balance being in preference. There is also a debenture charge outstanding of £11,300, bearing interest at 4½ per cent.

Fixed Dividend Shares

Fixed dividend rate shares followed the general trend of their counterparts in other industrial sections by moving against holders. Features were provided by BOOTS (EASTERN) 6 per cent. "A" cumulative and by BOOTS (WESTERN) 7 per cent. "A" which both finished 3s. 3d. lower at 24s. 6d. and 27s. 3d. respectively. A similar loss was recorded by TAYLORS, CASH CHEMISTS (LONDON), LTD., 6 per cent. which closed 3s. down at 20s. 6d., and by TAYLORS, CASH CHEMISTS (TRUST) 6 per cent. which closed around 3s. lower, also at 20s. 6d. The four last-mentioned shares have thus closed the half year at about their lowest for 1951.

Elsewhere, ALLEN & HANBURY'S, LTD., 7 per cent. preferred ordinary closed 3s. down at 24s. 6d. Smaller losses, however, were recorded by SAVORY & MOORE, LTD., 5½ per cent. which finished just over 1s. down at 19s. and by BEECHAMS MACLEAN HOLDINGS, LTD., 4 per cent. which also closed around 1s. lower at 17s. 1½d., after having been transferred down to 16s. in the meantime.

Japanese Investigation of Prices.—Having determined to investigate market prices of medicines after the removal of price controls, the Japanese Price Board aims at the establishment of a standard for the computation of medicine prices in the social insurance system as well as "fair transactions" in the drug trade.

COMPANY £1 units unless otherwise stated	HIGH	1951 LOW	END JUNE	COMPANY £1 units unless otherwise stated	HIGH	1951 LOW	END JUNE	
Albright & Wilson, 5s.	23	7½	15 1½	22 6	Imperial Chemical In- dustries ...	53 10½	42 0	52 1½
Allen & Hanburys, 7%	29	3	24 3	24 6	Imperial Chemical In- dustries, 7% pref. ...	29 10½	27 3	27 7½
prefd. ord. ...	3 0	1	7	3 0	Kent, G. B. & Sons, 12s. 6d. 5% pref. ...	12 6	10 9	12 6
Amber Chemical, 2s. ...	11	3	10 10½	11 3	Kershaw, A. & Sons, 1s.	4	3	3
Amber Chemical, 5% cum. pref. ...	3 0	2	4½	2 9	Laporte Chemicals, 5s.	13 3	9 10½	12 4½
Ascots Pharmacies, 5s.	24	3	21 9	23 1½	Lewis & Burrows ...	23 9	21 6	23 6
Aspro, 5s. ...	30	0	30 0	30 0	Macleans, 4% cum. pref. ...	18 0	16 3	17 0
Barclay & Sons ...	16	6	12 0	16 0	Mellins Food, 8s. 6% pref. ...	3 6	2 10½	3 0
Beecham Group, 2s. 6d. defd. ...	18	6	16 0	17 1½	Milton Antiseptic, 10s.	16 3	15 6	15 6
Beecham Maclean Holdings, 4% red. cum. pref. ...	38	6	31 6	19 6	Monsanto Chemicals, 5s.	29 4½	16 7½	29 1½
Berk, F. W., 2s. 6d. ...	26	9	24 6	24 6	Pears, A. & F., 5% irre. deb. ...	112 0	107 0	109 0
Boake Roberts, A., 5s.	57	3	46 1½	57 3	Pest Control, 5s. ...	7 6	6 4½	7 3
Boots (Eastern), "A" 6% cum. pref. ...	39	0	28 0	36 10½	Potter & Clarke, 1s. ...	1 9	10	1 1½
Boots (Western), 7% "A" non-cum. pref. ord. ...	30	0	27 0	27 3	Reckitt & Sons ...	107 6	96 6	103 10½
Boots Pure Drug, 5s. ...	17	6	16 0	16 0	Rolls Razor, 10s. defd. ord. ...	18 6	16 3	18 6
Borax Consld. defd. ord.	101	3	89 3	99 6	Sangers 5s. ...	24 0	20 3	20 3
British Alkaloids, 1s. ...	94	4½	79 4½	92 6	Sanitas Trust, 10s. ...	21 0	15 0	21 0
British Chemicals & Biologicals, 4% cum. pref. ...	36	3	26 0	31 10½	Savory & Moore, 5½% cum. pref. ...	20 4½	18 9	19 0
British Drug Houses, 5s.	122	6	86 3	122 6	Sherley, A. F. & Co., 8% cum. pref. ord. ...	19 9	17 6	19 9
British Oxygen ...	20	6	14 9	16 0	Smith & Nephew As- soc. Co.'s., 4s. ...	28 9	20 0	28 3
British Xylonite ...	35	6	24 9	34 3	South African Druggists, 5s. ...	18 0	12 0	14 9
Burt, Boulton & Hay- wood ...	2 11	2	1	2 5	Southalls (Birming- ham), 5s. ...	40 0	37 0	39 9
Bush, W. J. & Co. ...	9 1½	4	6	Spa Brushes, 2s. ...	3 1½	2 4½	2 9	
Camwail ...	11	7½	9 7½	10 9	Taylor, Cash Chemists (London), 6% cum. pref. ...	23 7½	20 6	20 6
Cooper, McDougall ...	2 9	2	0	Taylor, Cash Chemists, Trust, 6% cum. pref. ...	24 0	20 6	20 6	
Robertson ...	8 9	6	9	Taylor, Drug Co., 7% "A" cum. pref. ...	26 6	21 3	22 0	
Cow & Gate, 1s. ...	20	7½	18 9	19 4½	United Glass Bottle ...	91 0	74 9	90 6
Cow, P. B., 4s. ...	13 3	7	7½	13 0	Veno Drug Co., 12% pref. ord. ...	29 6	26 10½	28 3
Cussons Sons & Co., 2s.	19 6	17	6	Virol ...	67 6	67 6	67 6	
Dubarry Perfumery, 1s. ...	29 4½	24	6	Viscose Development Co., 5s. ...	10 4½	9 6	10 0	
Energen Foods, 2s. ...	20 1½	17	10½	Vitamins, 1s. ...	3 1½	2 3	2 10½	
Eno Proprietaries, 5½% cum. pref. ...	2	4½	1	Whites (Timothy) & Taylors, 7½% cum. pref. ...	30 10½	26 9	27 6	
Evans Medical Sup- plies, 5s. ...	862	\$49½	\$53	Whites (Timothy) & Taylors, 5s. ...	34 4½	26 9	32 6	
Field, J. C. & J., 10s. ...	90	6	58 6	Willows, Francis Pharm. Products, 2s. 6d. ...	3 4½	2 9	3 3	
Fisons ...	17	6	15 6	Willows, Francis Pharm. Products, 6% red. pref. cum. ...	19 6	18 0	18 9	
Fisons 4½% cum. pref. ...	14 9	13	9	Yardley & Co., 4s. ...	38 7½	36 3	37 6	
Galloway, P. H., 2s. ...	24 7½	19	1½	Yardley & Co., 4½% 2nd pref. ...	21 0	19 9	19 9	
Gillette Safety Razor Co., \$1 ...	23	3	21 9	21 9	World Natural Sponge Suppliers, 5/- ...	2 7½	2 0	2 0
Hampshire, F. W., 5s. ...	34 6	30	3					
Horlicks, 5s. ...	21 0	19	4½					
Howards & Sons, 5½% pref. ...	31 3	28	9					
Idris "A" ...	37 0	25	10½					
Ilford, 5s. ...	23 3	21	9					

GUIDE TO NEW MEDICAMENTS

Information about new proprietary medicaments to be supplied principally on prescriptions. Editorial recommendation is not implied. Reprints obtainable on application.

RENOTIN

MANUFACTURER: Robert Blackie, Ltd., Pomeroy Street, London, S.E.14.

DESCRIPTION: A cream containing ethylmorphine hydrochloride in a water-soluble cellulose base for iontophoretic application by means of aluminised felt (Blackie).

INDICATIONS: Myalgie conditions and migraine.

HOW PACKED: Renotin cream in 2-oz. and 1-lb. jars. The aluminised felt in packets, 12 x 24 in.

ALGIPAN BALM

MANUFACTURER: John Wyeth & Bro., Ltd., Clifton House, Euston Road, London, N.W.1.

DESCRIPTION AND FORMULA: An application containing histamine dihydrochloride, 0.1 per cent.; methyl nicotinate, 1 per cent.; glycol salicylate, 10 per cent.; and capsaicin, 0.1 per cent., in a water-soluble base.

INDICATIONS: Pain of rheumatic, muscular, visceral and nervous origin.

HOW SUPPLIED: In tubes containing 40 gm.

FERRAPLEX B.

MANUFACTURER: C. L. Bencard, Ltd., Great West Road, Brentford, Middlesex.

DESCRIPTION AND FORMULA: Sugar-coated tablets, each six of which contain: Ferrous sulphate, 1 gm.; copper carbonate, 2 mgm.; ascorbic acid, 50 mgm.; vitamin B complex, 2 gm. (including aneurine hydrochloride, 3 mgm.; riboflavin, 6 mgm.; nicotinamide, 30 mgm.; pantothenic acid, 480 microgm.; pyridoxine, 160 microgm.).

INDICATIONS: Hypochromic anaemias, etc.

DOSAGE: One or two tablets thrice daily.

HOW SUPPLIED: In containers of fifty.

MYSTREPTON OINTMENT

MANUFACTURER: Glaxo Laboratories, Ltd., Greenford, Middlesex.

DESCRIPTION: An ointment containing in each gm. crystalline sodium penicillin G, 2,000 units; and dihydrostreptomycin sulphate, 10,000 units (equivalent to 10 mgm. dihydrostreptomycin base).

INDICATIONS: Certain mixed skin infections, e.g., low-grade infections as in wounds, indolent ulcers and long-standing infected comedones.

HOW SUPPLIED: In cartoned tubes, each containing $\frac{1}{2}$ oz.

VENTRALKIA

MANUFACTURER: Forsters (Pharmaceuticals), Ltd., Seaham, co. Durham.

DESCRIPTION: Three types of tablets: "A," containing phenobarbitone, gr. 1, and atropine sulphate, gr. 1/100, in a base containing gr. 10 each of aluminium and magnesium hydroxides and magnesium trisilicate; "B," containing the base plus atropine sulphate gr. 1/100; and "C," containing the base only.

INDICATIONS: Peptic ulcer.

DOSAGE: One thrice daily, usually in successive weekly turns (A-B-C).

HOW SUPPLIED: Dispensing packs of twenty-one tablets only. On the addition of slip labels the packs of each type of tablet appear identical.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

London, July 4

THE market for PHARMACEUTICAL and FINE CHEMICALS remains quiet. Many price increases came into force during the week some of which had been announced in advance as, for example, PHENOL, BORAX and BORIC ACID. Inevitably derivatives of these products are affected and increased schedule prices are recorded for ASPIRIN, ASPIRIN TABLETS, SODIUM SALICYLATE, SALICYLIC ACID and METHYL SALICYLATE. Increases in the prices of BENZOIC ACID and the SODIUM SALT range from $\frac{1}{2}$ d. to $2\frac{1}{2}$ d. per lb., according to product and pack. Sodium benzoate is now 2s. $11\frac{1}{2}$ d. per lb. in 28-lb. lots and benzoic acid, 3s. $1\frac{1}{2}$ d. for a similar quantity. CREAM OF TARTAR and TARTARIC ACID are both advanced by £1 per cwt. Schedule prices for SALOL are up by 1s. per lb. PILOCARPINE ALKALOID and SALTS are advanced by 4s. to 6s. per oz. Following a rise in the price of BISMUTH METAL of 3s. 3d. per lb., schedule prices for BISMUTH SALTS were withdrawn. At the time of going to Press new prices for the salts had not been announced.

The CRUDE DRUGS market continues dull although a few drugs show a tendency to harden. Such offers as were made recently for prime Cape ALOES at 210s. to 215s. were taken up immediately and the position is now that no stocks remain at the source and only f.a.q. is offered from the origin. Chinese CAMPION is firmer following reduced supplies on the spot. PERU BALSAM is quoted at 16s., c.i.f.; spot supplies are getting scarce. IPECACUANHA remains unchanged. Bids made at prices a little under those asked by India for SENNA have been refused and only small business is reported done. PODS remain very firm. Chinese MENTHOL is slightly firmer. PAPAIN (East African) continues at the high level of 35s. to 38s. per lb.

The ESSENTIAL OILS market continues quiet. Spot quotations for ANISE are easier at 12s. to 12s. 3d., while prices for shipment are about 12s., c.i.f. Ceylon CITRONELLA continues weak, spot supplies easing still further during the week. Spot supplies of West Indian LIME are difficult to find.

U.S. Drug and Chemical Report

New York, June 29

STRONG items in FINE CHEMICALS include some of the SULPHONAMIDES, antibiotics and synthetic vitamins. Numerous inquiries have been noted for CARBON TETRACHLORIDE and BICHROMATES, while PHTHALIC ANHYDRIDE remains in a strong position. Demand for certain SPICES and SEEDS is slow but with consumers reported to be nearing the end of their stocks it is felt

that the undertone of the market is far from weak. Little business is being done on the CRUDE DRUGS market and prices tend to weaken. The prices of HENBANE and BELLADONNA LEAVES are expected to decline when crop collections come forward in July and August. New-crop SENEGA is arriving on the market and prices have weakened. AGAR is easier in the face of disappointing demand, while TOLU BALSAM has been lowered in price by 10 cents per lb. Sumatra BENZOIN is cheaper but ALOES remains very firm especially the Cape variety which is quoted at high levels for shipment. CAMPHOR is firmer at prices ranging from 62 to 65 cents per lb. Chinese MENTHOL is reported to be available at \$12.25 per lb., and the Brazilian is unchanged at \$11.90.

Buyers have been showing only fair interest in ESSENTIAL OILS. CITRONELLA, SPEARMINT and LEMONGRASS have declined in price but there is a steady demand for aromatics. A rise in price of West Indian distilled LIME is reported and ORANGE is now \$2.75 per lb.

Pharmaceutical Chemicals

ASPIRIN.—Prices ruling from July 2: 5-cwt. lots are 4s. 10d. per lb.; 1-cwt., 4s. $10\frac{1}{2}$ d. Schedule rates for quantities of 28-lb. and under 1-cwt. are from 5s. 8d. to 6s. according to pack. New rates per 1,000 for TABLETS are as follows:—Under 5,000, 5s. $0\frac{1}{2}$ d.; 5,000 and over, 4s. $10\frac{1}{2}$ d.; 10,000, 4s. $9\frac{1}{2}$ d.; 25,000, 4s. $7\frac{1}{2}$ d.; 100,000, 4s. 5d.; 250,000, 4s. 5d.; 500,000, 4s. $4\frac{1}{2}$ d.; 1,000,000, 4s. $3\frac{1}{2}$ d.

BENZOIC ACID.—Prices are advanced to 2s. $10\frac{1}{2}$ d. per lb. in 1-cwt. lots; 3s. $1\frac{1}{2}$ d. in 28-lb. lots. The SODIUM SALT is from 2s. $8\frac{1}{2}$ d. to 3s. $0\frac{1}{2}$ d. per lb.

BORAX.—Prices for B.P. grade as from July 2, in quantities of 1 ton and upwards are as follows:—Granular, £48 10s.; crystals, £51; powder, £52; extra-fine powder, £53 per ton. Prices of commercial range from £39 10s. to £44 per ton, as to type, and dehydrated borax is now £60 10s. per ton. In 1-cwt. bags; carriage paid in Great Britain. Surcharges for small quantities as previously (see Boric Acid).

BORIC ACID.—Revised prices for B.P. grade as from July 2, in quantities of 1 ton and upwards are as follows:—Granular, £81; crystal, £88; powder, £85 10s.; extra-fine powder, £87 10s. per ton. In 1-cwt. bags; carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5 cwt., 1s. per cwt.; 3 cwt., 2s.; 1 cwt., 5s.

CHLOREBUTOL.—28-lb. lots are at the rate of 13s. 6d. per lb.

CREAM OF TARTAR.—Revised rates (per cwt.) for the home trade are as follows:—10-cwt. lots, 252s.; 5-9 cwt., 253s.; 2-4 cwt., 254s.; 1-cwt., 255s.; delivered.

LITHIUM SALTS.—Current rates for 1-cwt. lots are as follows:—CARBONATE, 9s. per lb.; CHLORIDE (commercial), 8s. 6d.; HYDROXIDE, 8s. 6d.; CITRATE, 7s.; SULPHATE, 6s. 4d.; SALICYLATE, 8s.

METHYL SALICYLATE.—Increased prices. In 1-cwt. lots, 3s. 3d. per lb.; 56-lb., 3s. 3½d.

PANCREATIN.—1-cwt. lots of B.P. are quoted at 9s. per lb., and 28-lb. at 10s. U.S.P.; 1-cwt. lots, 11s. 6d. per lb.; 28-lb., 12s. 6d.

PILOCARPINE.—Advanced prices. In 25-oz. lots prices are: ALKALOID, 56s. per oz.; HYDROCHLORIDE, 46s. per oz.; NITRATE, 42s. per oz.

SALICYLIC ACID.—Increased prices ruling from July 2: 5-cwt. lots in bulk are now 2s. 11½d. per lb.; 1-cwt., 2s. 11d. Scheduled rates for quantities of 28-lb. and under 1-cwt. are from 3s. 7d. to 3s. 11d. as to pack.

SALOL.—Price increased. In 1-cwt. lots, 9s. per lb.; 28-lb., 10s. 6d.

SODIUM SALICYLATE.—Prices ruling from July 2: 1-ton lots in bulk, 3s. 5d. per lb.; 5-cwt., 3s. 5½d.; 1-cwt., 3s. 6d. Scheduled rates in the home market for 28-lb. and under 1-cwt. are from 4s. 1d. to 4s. 5d. per lb., as to pack.

STILBGESTROL.—Quotations are from 1s. to 1s. 4d. per gm. as to quantity.

TANNIC ACID.—Home-trade rate for Levis, B.P. (ex ether) in 1-cwt. lots is 8s. per lb.; B.P. powder is quoted at 8s. 3d. per lb. for the same quantity.

TARTARIC ACID.—Increased rates (per cwt.) for the home trade are as follows:—10-cwt. lots, 300s.; 5-9 cwt., 302s.; 2-4 cwt., 304s.; 1-cwt., 305s.

TEREBENE.—For 1-carboy lots, 4s. 2d. per lb. is asked. In winchesters, prices are from 4s. 3½d. to 5s. 2d. per lb.

TERPIN HYDRATE.—Prices are from 7s. 6d. to 8s. per lb., as to quantity.

TERPINEOL.—Prices of B.P. grade are from 4s. 6d. to 4s. 9d. per lb., as to quantity.

THEOBROMINE.—Prices (per lb.) for ALKALOID, B.P.C., are from 44s. to 51s. The CALCIUM SALICYLATE preparation is from 27s. 9d. to 36s.; SODIUM SALICYLATE, from 27s. 3d. to 35s. 6d.; and SODIUM BENZOATE, from 26s. 3d. to 34s. 6d.; all as to seller.

THEOPHYLLINE.—Prices of ALKALOID are from 52s. 6d. to 60s. per lb., as to quantity. AMINOPHYLLINE is from 57s. 6d. to 65s. per lb.

THYMOL.—28-lb. lots are 31s. 6d.; 14-lb. lots, 32s.; and 7-lb., 32s. 6d. per lb.

Crude Drugs

ALOES.—Prime Cape is scarce at source. A parcel of July shipment is offered at 235s. per cwt., c.i.f. Offers of f.a.q. from origin have been received at 215s., c.i.f.

ANISE (STAR).—July shipment from Hong Kong is 224s., c.i.f., nominal.

BISMUTH.—Increased price from July 1. In minimum 5-cwt. lots METAL is now 25s. 9d. per lb.

CAMPHOR.—Firmer. Chinese (B.P.) powder on the spot is from 6s. per lb., duty paid (5s. 6d. in bond); for shipment, 5s. 2½d. per lb., c.i.f. ¼-oz. tablets on the spot are from 7s. 3d. per lb., duty paid; shipment, 6s. 4½d.

CANADA BALSAM.—Landed price is 27s. per lb.

CARDAMOMS.—New-crop Aleppy green prompt shipment for October-November is quoted from the origin at 18s. 3d. per lb., c.i.f.; for November-December, 17s. per lb., c.i.f.

CASCARA SAGRADA.—Easier. 1950 bark on spot is quoted at 340s. per cwt., duty paid. New-peel American bark is quoted at 300s., c.i.f.

CHERRY BARK.—Thin cut natural is quoted at 2s. 3d. and rossed at 2s. 6d. per lb., duty paid, ex warehouse London.

COPAIBA BALSAM.—B.P. soluble is offered at 23s. 6d. per lb., duty paid.

ERGOT.—Portuguese new-crop is offered at 44s. per lb., c.i.f., early shipment, 42s. 6d., c.i.f., August shipment.

HONEY.—Australian supplies remain scarce on the spot; prices are 92s. per cwt. in 60-lb. tins. Jamaican is offered at around 104s. per cwt. in 3-cwt. barrels, while Argentine is 88s. per cwt. in 5-cwt. barrels, both ex warehouse.

IPECAUANHA.—Colombian is quoted at from 56s. to 56s. 6d. per lb., c.i.f.

PERU BALSAM.—Very scarce on spot and nominal at 21s. per lb.; for shipment from the origin, 16s., c.i.f., quoted.

SARSAPARILLA.—Jamaican native red is quoted at 2s. 7d. per lb., ex warehouse London; for shipment, 2s. 4½d. per lb., c.i.f.

SEEDS.—Turkish ANISE is quiet at 150s. per cwt., in bond (160s., duty paid); Cyprus, 162s. 6d., spot London. **CARAWAY.**—Dutch now offering at 137s. 6d. per cwt., duty paid, spot London.

CELERY.—Indian is in poor demand at 1s. 10½d. per lb., spot London. **CORIANDER.**—Market unchanged on spot. Morocco is quoted at 155s. per cwt., duty paid (145s., in bond); Indian, 165s. per cwt.; Morocco for shipment during the week advanced to 85s. per cwt., c.i.f. London and later declined to 72s. 6d. per cwt., c.i.f., at which business was reported. **CUMIN.**—Market quiet. Spot Cyprus is offered at 245s. per cwt.; Indian, 240s.

New crop for July-August shipment quoted at:—Morocco, 190s. per cwt.; Indian, 195s.; Cyprus, 180s. per cwt. **DILL.**—Indian is unchanged at 80s. per cwt., spot. **FENNEL.**—Indian is offered at 140s. per cwt., spot, and 120s. per cwt. for shipment. **FENUGREEK.**—Spot Morocco is 50s. per cwt., duty paid, ex store London or Liverpool.

SENEGA.—Easier. New-crop is at 16s. per lb., c.i.f.

SENNA.—Tinnevelly wet-crop leaves for July-September shipment are quoted as follows:—Prime No. 1, 1s. 2½d.; No. 2, prime, 1s. 1d. and f.a.q., 1s.; No. 3, prime, 1½d. f.a.q., 10½d.; No. 4, cleaned, 9d. and f.a.q., 8½d. per lb., c.i.f. Hand-picked pods for shipment are quoted at 1s. 11d. and a superior quality, 2s. 9d. per lb., with f.a.q., 1s. 2½d. per lb., all c.i.f.

SHELLAC.—Spot F.O.T.N., pure, is 370s.; F.O. Standard 1, 382s. 6d.; and fine orange, 415s. to 500s. per cwt.

STROPHANTHUS.—*Kombé*, 100 per cent. is quoted at 21s. per lb. on the spot.

STYRAX.—Firm. Spot is from 9s. per lb., duty paid, and 8s. 3d. in bond.

TOLU BALSAM.—Natural on spot is 45s. 6d. per lb., and B.P. from 35s. to 37s. 6d. per lb. Natural from the origin is quoted at 42s. 6d., c.i.f.

TAMARINDS.—Calcutta on spot is 70s. (10 per cent. stones) and 72s. (5 per cent.) per cwt. Calcutta for shipment are quoted at 63s. to 65s. per cwt., c.i.f., with a 10 per cent. and 5 per cent. stone content, respectively.

TONKA BEANS.—Firm. Frosted Parà are quoted at 6s. 9d. per lb., and Trinidad at 7s., ex warehouse.

TRAGACANTH.—Quiet. No. 1 ribbon on the spot is £195 per cwt.; No. 2, £170; No. 3, £145.

TURMERIC.—Madras finger is offered at 102s. 6d. per cwt., spot London.

WAXES.—Spot market has been quiet for BEES'. Dar-es-Salaam on spot is 630s. per cwt.; June-July shipment, 620s., c.i.f. Benguela on spot is 575s. per cwt. (in bond); June-July shipment, 530s., c.i.f.

CANDELLILLA.—Market is quiet. Spot supplies are offered at 625s. per cwt., ex store, 610s., c.i.f. **CARNAUBA.**—Spot market has been quiet. Prime yellow, spot, 1,175s. per cwt.; afloat, 1,140s., c.i.f.; for June-July shipment, 1,120s., c.i.f. Fatty grey, 1,035s. per cwt.; afloat, 1,020s., c.i.f.; June-July shipment from the origin is 1,030s., c.i.f.

MONTAN.—Quiet. Reibbeck crude on spot is 127s. 6d. per cwt. **OURICURI.**—Spot, 1.9 per cent., 895s. per cwt.; 1.3 per cent., 915s. Shipment quotations are lower: 0.5 per cent., 819s., and 3 per cent., 790s. per cwt., both c.i.f.

WITCH HAZEL.—Leaves on the spot are quoted at 2s. 9d. per lb. and bark at 1s. 6d.

Essential and Expressed Oils

ANISE.—Spot quotations are from 12s. to 12s. 3d. per lb.; for shipment, 12s., sellers, c.i.f.

BOIS DE ROSE.—Brazilian on the spot is from 39s. to 40s. per lb., as to quantity.

CARDAMOMS.—English-distilled is quoted at from 450s. per lb.; imported, from about 450s., duty paid.

CINNAMON.—B.P. oil on the spot is quoted at from 67s. 6d. to 70s. per lb. English bark oil is offered at 21s. to 24s. per oz. Ceylon leaf, 16s. 6d. per lb., spot, nominal; for shipment, 13s. 6d., c.i.f.

CITRONELLA.—Quiet. Ceylon is quoted at from 12s. 6d. per lb., spot; for shipment, 11s. 3d., c.i.f. Java on spot is quoted at 15s. per lb.; for shipment, 12s. 7d., c.i.f.; Formosa on spot, 14s. (in bond, 13s. 6d.), 10s., c.i.f.

CLOVE.—English-distilled bud oil is from 30s. to 31s. per lb., with other grades of B.P. oil at about 27s. 6d. Madagascar leaf oil to come forward, 15s. 6d. per lb., c.i.f.

LAVANDIN.—Spot quotations are in the region of 30s. to 40s. per lb., according to quantity.

LEMONGRASS.—Spot quotations are from 23s. 6d. per lb. July-August shipment, from 18s. 6d., c.i.f.

LIME.—Very scarce on spot. West Indian distilled is 67s. 6d. to 68s. per lb., nominal.

OLIVE.—Edible oil is quoted at from 30s. 6d. to 35s. per gall. of 9 lb., ex wharf, according to grade. French virgin (maximum acidity, 1 per cent.) is offered for shipment at £325 and Tunisian (1 per cent.) at £315 per 1,000 kilos, c.i.f. London.

PEPPERMINT.—Chinese *arvensis* oil on spot is about 34s. 6d. per lb.; afloat, 31s. to 32s., c.i.f., as to position. Brazilian on spot is 30s. per lb. Continental "Mitcam" *piperita* is offering at from 60s. per lb., while American B.P. oil is from 62s. to 70s. per lb., ex warehouse.

PINE.—*Pumilonis* on the spot is quoted at from 18s. to 20s. per lb.; *sylvestris* is at about 16s. per lb., and Siberian (*abietis*) is about 24s. 6d. per lb.

SAGE.—Spanish, 11s. per lb., spot.

SANDALWOOD.—Mysore oil on spot is from 82s. to 85s. per lb. East Indian, Dutch-distilled (95 per cent. *santalol*), 105s. per lb., duty paid. West Indian is available at 25s. per lb., spot. English-distilled, 90s. per lb.

SASSAFRAS.—Brazilian natural is offering at from 6s. 6d. to 7s. 6d. per lb., duty paid, spot, according to grade.

SPEARMINT.—Spot quotations are from 55s. to 58s. 6d. per lb., duty paid.

VETIVERT.—Bourbon is nominal at 250s. per lb., spot.

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RECENTLY elected officers of branches of the Pharmaceutical Society or other pharmaceutical organisations include:—

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TRADE MARKS

From the "Trade Marks Journal," June 13

For non-medicated rose-scented hair oil and lotions (3)

ROSE-LOUIENE, 688,637, by Louis Rose, London, E.1.

For pharmaceutical preparations (5)

AQUAVIRON, INTRAVIRON, 696,756-836, by British Schering, Ltd., London, W.8. PROTADAPTINE, 697,641, by Aktiebolaget Asta, Apotekarnes Kemiska Fabriker, Sweden. ESILLIN, 697,700, by Glaxo Laboratories, Ltd., Greenford. HICOSEEN, 697,972, by Hommel's Haematogen & Drug Co., London, S.E.24.

For all goods (5)

STERAVLON, 696,911, by Imperial Chemical (Pharmaceuticals), Ltd., London, S.W.1. TYROLARIS, 696,960, by Sharp & Dohme, Ltd., Hoddesdon.

From the "Trade Marks Journal," June 20

For sensitised photographic copying paper (1). OZAPLASTIC, 696,134, by Ozalid Co., Ltd., London, E.C.2.

For non-medicated toilet preparations (3).

TARTYN, 695,547, by Rix Ray Co., Aberdeen.

For detergents (3).

GRE-SOL, 696,664, by Perkin & Co., Ltd., trading also as Gre-Solvent Co., Leeds.

For preparations for cleaning and removing stains from the hands (3).

HANDJOY, 697,978, by G. T. Fulford Co., Ltd., London, W.1.

For toilet soaps (3).

JASLYN, 697,991, by James Lindsay & Sons, Ltd., Dunkirk, Nottingham.

For bandages, cotton wool, corn plasters, surgical dressings, menstruation appliances and similar goods (5) *and for surgical belts and corsets, trusses and other surgical appliances* (10).

MAID MARIAN, 621,348-49, by J. B. Lewis & Sons, Ltd., Nottingham.

For dietary salt for export (5).

SINOSAL, B691,441, by Camden Chemical Co., Ltd., London, W.C.2.

For all goods (5).

ACUTOL, 691,606, by Bykgulden Lomberg, Chemische Fabrik Gesellschaft mit Beschränkter Haftung, Constance. REDBLOOM, 696,799, by Sunnyside Orchards Pty., Ltd., Botany. 3 HANDS, 697,422, by British Disinfectant Co., Ltd., London, N.15.

For benzene derivatives for use in medicine and pharmacy (5).

CONTRAPHEN, 692,125, by Bertram Coleman, Liverpool.

For antibacterial preparations (5).

TERFONYL, 693,844, by E. R. Squibb & Sons, New York.

For insecticides (5).

UNITOX, 695,612, by Chelsea Insecticides, Ltd., East Grinstead.

For disinfectants (5).

NU-FEK, 697,941, by William Smith, Alfreton.

New Pack!



HERE is the new 'Nervone' pack, eye-catching, distinctive in its ivory and bronze blue colours! Displayed on your counter or in your window it will serve as a reminder to your customers that YOU can supply. Remember every 'Nervone' sale means a profit of ONE SHILLING and SEVENPENCE, and even a modest display, such as the new pack provides, will move your stock with greater speed and enable you to take full advantage of the demand created by our large-scale advertising.

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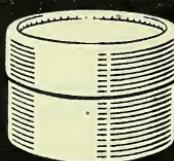
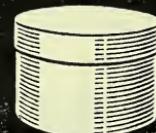
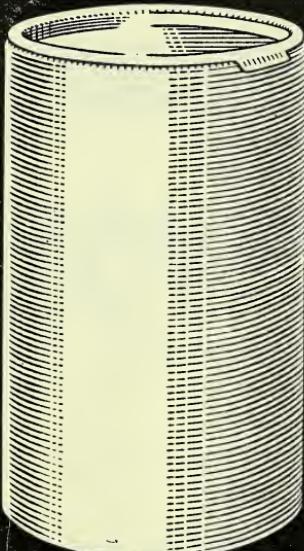
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(This gained one of the coveted South Bank Festival sites in the recent National Festival competition.)

The new packs are available to the trade at revised retail prices of 3/6d. and 1/9d. (inclusive of tax). Old stocks of Lacto-Calamine (Antiseptic) Lotion in 4oz. bottles will be accepted for credit.

Full particulars of Bonus Parcels on request.

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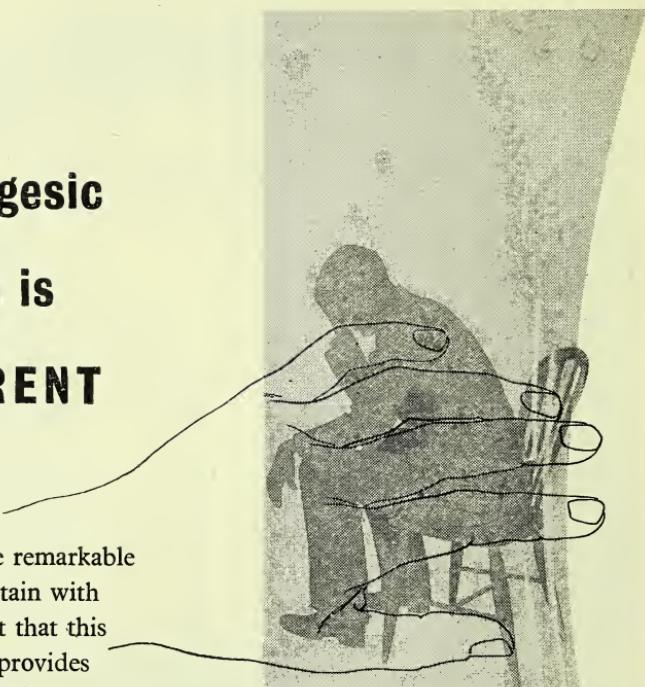
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**'EDRISAL'—Its dual action relieves pain
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'Edrisal' is issued in bottles of 25 tablets.

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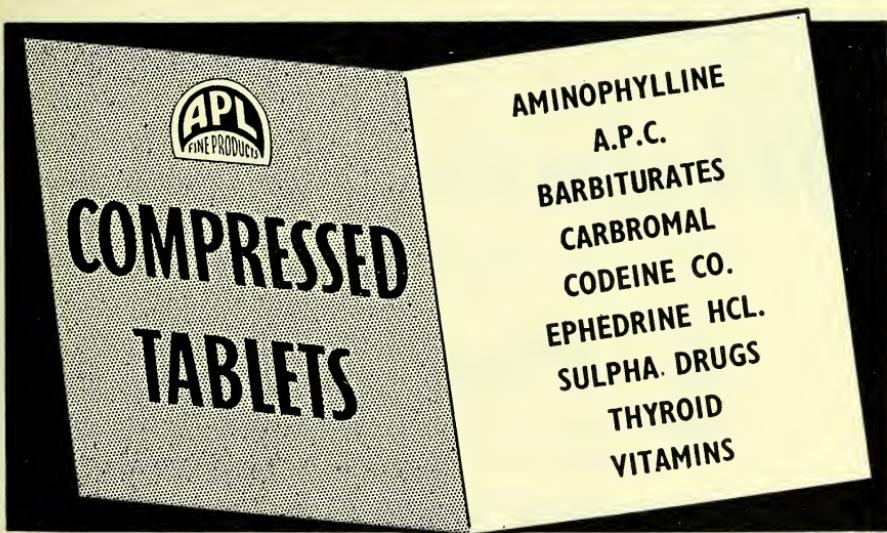
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The demand for 'Aludrox' is really big and this in its turn creates some difficulties, especially with containers.

At the moment, the 80 oz. bottle supply position is such that we are earnestly asking pharmacists to return to us all empty 80 oz. 'Aludrox' winchesters, preferably in their cardboard containers.

The carriage costs involved will, of course, be paid by us for every 80 oz. 'Aludrox' bottle received at the following address:—

RETURNED GOODS DEPARTMENT

John Wyeth & Brother Ltd.
Oldhill Place
London, N.16

Sunderland Education Committee

SUNDERLAND TECHNICAL COLLEGE

Principal :
D. A. Wrangham, M.Sc., Sen.Wh.Sch., D.I.C.,
M.I.Mech.E., A.C.G.I.

PHARMACY DEPARTMENT

Head of Department :
F. H. Oliver, B.Sc., B.Pharm., Ph.C.

A Full-time REFRESHER COURSE FOR PHARMACISTS

Will be held in the College from Monday, 17th September to Saturday, 22nd September, 1951.

The Course will consist of Lectures and Laboratory work dealing with some of the more important advances made in Pharmacetics and Pharmacology during recent years. Special reference will be made to the B.P. Addendum.

Fee for Course—£5·00

Accommodation is limited and applications should be made as soon as possible and, in any case, not later than 1st September.

Full particulars may be obtained from the Registrar, The Technical College, Sunderland, Co. Durham.

Education Offices, 15 John Street,
SUNDERLAND.

W. THOMPSON,
Director of Education.

THE POWDER WITH A REPUTATION

Askit
For over 30 years
Scotland's leading
Proprietary Medicine

for the speedy relief of
Headaches, Neuralgia, Neuritis
and all Nerve Pains.

Manufactured by

ASKIT LTD MANUFACTURING CHEMISTS
GLASGOW N

and stocked by
ALL LEADING WHOLESALE HOUSES

While the sun shines . . .

... you can enjoy record sales of BEACH! This pleasant non-greasy sun tan cream is going to be more popular than ever this year. The advertisement shown here will appear during the summer in the 10-million-a-day-readership DAILY MIRROR, the holiday-makers' favourite paper. Back up this advertising by displaying this fine showcard (available on request). It's a full-colour drawing by the well-known artist Tage Werner.

A.B.D.H. PRODUCT

beach
SUN TAN
CREAM

2/6
A TUBE

Sun tan
without
sun burn

SUN TAN
CREAM
beach
IN LARGE TUBES 2/6
Get it at your chemist

Retail price 2/6 per tube.
Trade Price
12/- per doz. tubes.
Special terms—
5% discount on 3 doz.
7½% discount on 6 doz.

VEGANIN PRICES AN EXPLANATION TO YOUR CUSTOMERS

Tubes of 10 { 14/3d. per dozen, exclusive of Purchase Tax
2/-d. retail price, inclusive of Purchase Tax

Tubes of 20 { 23/3d. per dozen, exclusive of Purchase Tax
3/3d. retail price, inclusive of Purchase Tax

No change in prices of 100 and 500 Dispensing Packs,
which remain at practically the pre-war prices.

You may like to cut out the remainder of this announcement and show it to any customer who queries the Veganin prices.

Raw material prices to-day are nearly all more than double those of 1939, e.g., codeine has increased 184%, phenacetin 133%, and aspirin 93%.

Finishing supplies cost 103% more now than in 1939.

The Retail prices of Veganin in 1939 were 1/-d. for 10 tablets, 1/9-d. for 20; to-day's prices of 1/7d. plus approximately 5d. tax = 2/-d. and 2/7d. plus approximately 8d. tax = 3/3d, show 58% and 48% increase respectively.

The 1939 basic prices of Veganin 10's and 20's were with difficulty maintained until the end of last year by more efficient production on greatly increased volume.

WILLIAM R. WARNER & Co. Ltd., Power Rd. London, W.4

Travellers' Joy.

Millions more people will be travelling during this Festival and holiday season, and the demand for our Travel Sickness Remedy will be greater than ever. The pure gelatine capsules, each containing two tablets triturates, are easily swallowed whole, or, if necessary the tablets may be removed and crushed to powder. Accurate half doses are immediately available. Keep the attractive and convenient pack in view by showing this sales creating display on your counter.

Retail 1/3 per box, 1/9 per box.

Trade 9/- per doz., 13/- per doz.

Tax free

JOHN BELL'S
Sea & Travel Sickness Remedy



JOHN BELL, HILLS & LUCAS LIMITED,
OXFORD WORKS, WORSLEY BRIDGE ROAD, LONDON, S.E.26.

Important Announcement

As from July 1st 1951, Continental Laboratories have been appointed by Laboratoires Robert & Carriere, Paris, as sole agents for the British Isles for

STANNOXYL Tablets

and other Robert & Carriere products which will shortly be introduced.

On the same date the following price increases for STANNOXYL will come into force :—

RETAIL PRICES <i>per unit including P.T.</i>		TRADE PRICES <i>per doz. + P.T.</i>	
80 Tablets	5/6d.	36/od.	+
500 Tablets	25/6d.	168/od.	+
1000 Tablets	49/2d.	324/od.	+
		11/7d.	54/od.
			104/od.

CONTINENTAL LABORATORIES LTD.
101 GREAT RUSSELL STREET, LONDON, W.C.1
Telephone: MUSEum 2042/3 Telegrams: Taxolabs, Phone, London

THE CHAS. H. PHILLIPS CHEMICAL CO. LTD.

CURRENT PRICE LIST

	Retail Price Each <i>Including Tax</i>	Wholesale Price Per Doz. <i>Tax Extra</i>
<i>Medicinal Preparations (Tax 33$\frac{1}{3}$%)</i>		
* Milk of Magnesia '	1/9	12/5
" " "	3/6	24/10
** Milk of Magnesia ' Tablets	1/5	10/3
" " " "	2/10	20/6
" " " "	4/11	35/6
** Mil-Par ' Antacid Lubricant	2/10	20/5
" " " "	4/9	34/3
** California Syrup of Figs '	1/6	10/8
<i>Toothpaste (Tax 33$\frac{1}{3}$%)</i>		
* Phillips' Dental Magnesia	1/6	10/8
" " "	2/3	16/4

Generous display discount terms are available on combined quantity parcels, details of which will be gladly forwarded on request.

179, ACTON VALE, LONDON, W.3.



PROPRIETARIES
SUNDRIES DRUGS
TABLETS & PILLS

FOR
CHEMISTS

*Manufacturing
Chemists*

Head Office & Works Mansfield Road Derby Telephone 4266 (4 lines) Branch Warhouse Grosvenor St. Ashton-under-Lyne Telephone 2816 (2 lines)

LOSALL'S ADRENALINE CREAM

Price

1oz. Jars 12/- doz.

2oz. Jars 20/- doz.



Price

4oz. Jars 30/- doz.

1 lb. Jars 7/6 each



LOFTHOUSE & SALTMER, LTD. *Manufacturing Chemists, HULL.*

HEWLETT'S ANTISEPTIC CREAM

THE CREAM WITH A USE IN EVERY HOUSEHOLD FOR PREVENTING AND TREATING NAPKIN RASH, OR FOR SORE HANDS, CUTS, ABRASIONS OR AS A SOOTHING APPLICATION FOR CHILBLAINS, ETC.

COST 18/- DOZ. + P.TAX. RETAIL 2/3 + P.TAX. 33½% PROFIT
BONUS TERMS ON ORDERS OF 3 DOZEN.

These prices apply in the United Kingdom only

C. J. HEWLETT & SON LTD.

MANUFACTURING

CHEMISTS

35-43, CHARLOTTE ROAD, LONDON, E.C.2

216 ORR STREET, GLASGOW, S.E.

ROURA & FORGAS LIMITED

Sterling Area Suppliers of

ITALIAN QUICKSILVER

HANOVER HOUSE, 73/78 HIGH HOLBORN, LONDON, W.C.1

Telephone Nos. HOLborn 0517/9

HERE'S THE STING

Why is Calsol Milk a best seller? because it doesn't solidify, doesn't separate—keeps its satin-smooth creaminess on the beach, in the home—and on your shelves!

HERE'S THE STING

CALSOL MILK made by JEFFREYS MILLER & COMPANY LIMITED. LEYLAND MILLS WIGAN

T/SCS-2 (3)

ONLY 3 WEEKS MORE

to profit by the
Silvikrin grand bonus
offer—launching
the new sensational
Silvikrin
cream shampoo

*Credit Note
for 9/-
WITH EVERY 3 DOZ.
1/3 SIZE TUBES ORDERED*



Behind this marvellous cream shampoo is some of the heaviest (and hardest hitting) advertising in the shampoo market. Some 10,000,000 potential customers will see the first advertisement (1 page in the *Daily Express*). Are you ready for them?

Display this attractive Silvikrin Cream Shampoo Outer on your counter or in your window for at least 14 days and we will send you:

With every 3 doz. 1/3 size tubes ordered—a credit note for 9/-

With every 3 doz. 2/size tubes ordered—a credit note for 14/3

Trade Prices for Silvikrin Cream Shampoo: 1/3 size : 9/- per doz.
plus tax. 2/ size : 14/3 per doz.
plus tax.



**This offer closes on Saturday
28th July 1951**

**SEND IN YOUR
ORDER NOW!**

Delay may cost you money

WANTED *All the Time!*

SELLS *All the Time!*

PROFITABLE *All the Time!*

**That's why so many
chemists are stocking**

SILCOT

**—and that's why you
should stock**

SILCOT too

ADVERTISED

All the Time!



*Miss Silcot as she appears
in the July magazines.*

Silcot is wanted all the time. There is always a demand for it. That is because it is a quality cotton wool towel. It gives the user *extra* comfort.

Hosts of women today ask for Silcot time after time. There is no other towel which gives them the same comfort and security. They like Silcot, too, for its economy in use.

Demand based on quality is good. But with Silcot there is more. You have quality—you also have one of the most widely-advertised towels on the market. This ensures consistent all-the-year-round sales.

You should get the full benefit of this advertising, this constant demand for a first-class line, by stocking Silcot. **You** will find Silcot profitable, too.

SILCOT *Sanitary Towels*

PLEASE SEND BACK YOUR EMPTY CARTONS!

MACDONALD & SON LTD., HOPE MILLS, POLLARD ST., MANCHESTER 4

DOUBLE YOUR SALES OF CALAMINE

this
SUMMER

Don't be caught short by a heat wave—stock up with Potter & Clarke's Calamine Lotion now.

Put up good looking 4-oz. bottles.

TERMS AS OUR CATALOGUE



POTTER & CLARKE LTD

60-64 ARTILLERY LANE, LONDON, E.1

Phone: BISHOPSGATE 4761 Grams: Horehound. 'Phone, London.

77 DANTZIC STREET, MANCHESTER, 4

Phone: BLACKFRIARS 8734 Grams: Horehound, Manchester.

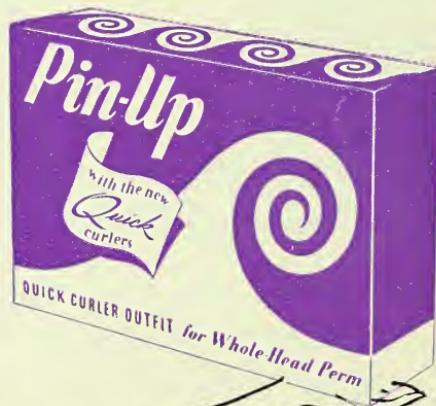
62 ORBISTON STREET, MOTHERWELL.

Phone: MOTHERWELL 1413 Grams: Horehound, Motherwell.

4 marvellous home perm improvements

1 THE NEW

Quick CURLER OUTFIT



2 FASTER WAVING TIME

3 NO TEST CURLS NO CLOCK-WATCHING

4 AND NOW— THE JUNIOR REFILL only 5/-



These 4 Pin-Up improvements, backed by the biggest-ever advertising campaign, are specially timed to catch peak summer sales. Make sure of your share in this new business.

Now available

STREPTOMYCIN

SULPHATE
DC(B)L

in vials of 1 million i.u. (equivalent to
1 gramme streptomycin base) selling
at 5s 0d. per vial less usual discounts



Distributed by

Allen & Hanburys Ltd. British Drug Houses Ltd.

Burroughs Wellcome & Co.

Evans Medical Supplies Ltd.

Imperial Chemical (Pharmaceuticals) Ltd.

Pharmaceutical Specialities (May & Baker) Ltd.

Manufactured by

**THE DISTILLERS COMPANY
(BIOCHEMICALS) LIMITED**

SPEKE

LIVERPOOL



Now Available to all Chemists

'NIAGARA' Brand Blackcurrant Syrup is rich in Vitamin C and is thus specially suitable for children, invalids and nursing mothers. It contains not less than 20 mgms. Ascorbic Acid per fluid ounce, and sufficient is now available for all to be supplied.

RETAIL PRICE 2/10 PER BOTTLE

Sole makers

BARNETT & FOSTER LTD.

NIAGARA WORKS · EAGLE WHARF ROAD · N.I.

Established in the Year 1858



**THE SHAMPOO WITH
SCALP PENETRATING
ACTION**

**A NUCTA SPECIALITY
PRODUCT**

This attractive display stand carries the 8oz. Bottle which sells at 4/3½.

28/- per doz. plus tax

Also Full range of Toilet Specialities . . Violet Oil, Hand Lotion, After Shaving Lotion

Obtainable from your usual wholesaler or direct from the manufacturers :-

STEWART, GOODALL & DUNLOP LTD. 121a PRINCES STREET, EDINBURGH

CARTER'S

Get your share of Quosh

Sales this Summer!

There's still time for you to share in the Sales-success of Quosh; to get the benefit of the large-scale Quosh publicity — *if you act now*. Send off your order today for these better-value, better-selling Fruit Squashes and ask, too, for supplies of the free Quosh Sales-Aids shown below. But *hurry* — Summer's here already, remember?

(Above) REF: Q.3 WINDOW TRANSPARENCY 6" deep x 12" wide. Also available as WINDOW STICKER (Ref: Q.4) 7" deep x 14" wide, and SHOWCARD (Ref: Q.5) 5" deep x 9½" wide.

(Right) REF: Q.9 5-BOTTLE DISPLAY STAND 22½" high, 15½" wide with 3" base to take the 5 Quosh 26 oz. bottles.

(Above) REF: Q.1 5-BOTTLE COLLAR STAND Takes the 5 Quosh 26 oz. bottles.

(Right) REF: Q.2 CUT-OUT SHOWCARD 10½" deep x 8" wide.

REF: Q.8 WINDOW PELMET 13" deep adaptable to any width. (Below)

* IMPORTANT!

Allowances for Quosh Bottles & Cartons
To save supplies, our Distributors are authorised to credit their Dealers with 6d. for every Quosh Carton plus 2/- a dozen for Quosh 26 oz. bottles returned to them, carriage forward.

CARTER'S OF COLEFORD

H. W. CARTER & CO. LTD., The Royal Forest
Factory, Coleford, Glos. Phone: Coleford 3201-5



Makers of **Ribena**
BLACKCURRANT JUICE

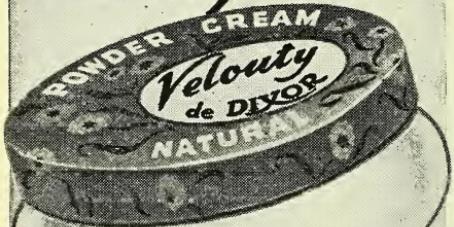
W.R.2A

E

Velouty de DIXOR

The **ORIGINAL** combined
POWDER CREAM

Now in jars...



*... the centre
of attraction*

- ★ IVORY
- ★ NATURAL
- ★ PEACH
- ★ SUNGOLD
- ★ OCHRE

2/6
RETAIL
inc. tax

*Attractive display cartons
of six jars*

From your usual wholesaler or direct from

DIXOR LTD.
ST. LEONARD'S WORKS,
MORTLAKE, S.W. 14.

GOING GREY?



Perfectly
Harmless

*Keep it
DARK with
SHADEINE*

— Your SALES are assured if
you stock SHADEINE!

Still the best hair tint. In all natural shades. Stocked by all wholesalers. Trade prices—1 oz. 16/9 per doz., 2 oz. 29/7 per doz. Purchase Tax 100%. Retail prices 3/3 and 5/9 per bottle respectively. Also the new GOLDEN SHADEINE for lightening mousey hair. 2 oz. 16/9 per doz., 4 oz. 29/7 per doz., Purchase Tax 100%. Retail Prices 3/3 and 5/9 per bottle respectively.



THE SHADEINE CO.
49 Churchfield Rd. Acton, London, W.3

*We invite you to write
for this **FREE BOOK***



Most of the training necessary to qualify for a Diploma in Chiropractic can now be taken at home by specialised correspondence lessons. Fullest particulars of how to enter this highly-paid profession from: **SCHOOL OF SURGICAL CHIROPRACTIC** (Dept. CD). **LEATHERHEAD, SURREY**



*sells on
its
scent!*

—added to which it has

- National advertising support
- Smart, modern packaging
- Competitive retail price
- Quick, reliable action

When your customers know that you stock a depilatory that dissolves unwanted hair like magic—and really **does** smell fragrant—you'll be in for a future of big Bu-to sales! Order NOW from your usual wholesaler.

Retail price: 2/6 per tube, inc. tax. Trade: 12/- per dozen, plus tax. Packed in dozens in attractive outers.

BIOMETICA LIMITED • BULLHEAD ROAD • BOREHAM WOOD • HERTS.

BU-TO SELLS ON THE SPOT!

PRICE ANNOUNCEMENT

**All 16 varieties of
HEINZ Strained Foods**

Retail Price **7** d. per can

from 2nd July, 1951

Dearborn
(1523) 472

MERCOLIZED WAX

• • • • *for nightly skin care*

PILENTA SOAP

• • • • *for the complexion*

SIPOLITE

• • • • *a powder depilatory*

CLYNOL BERRIES

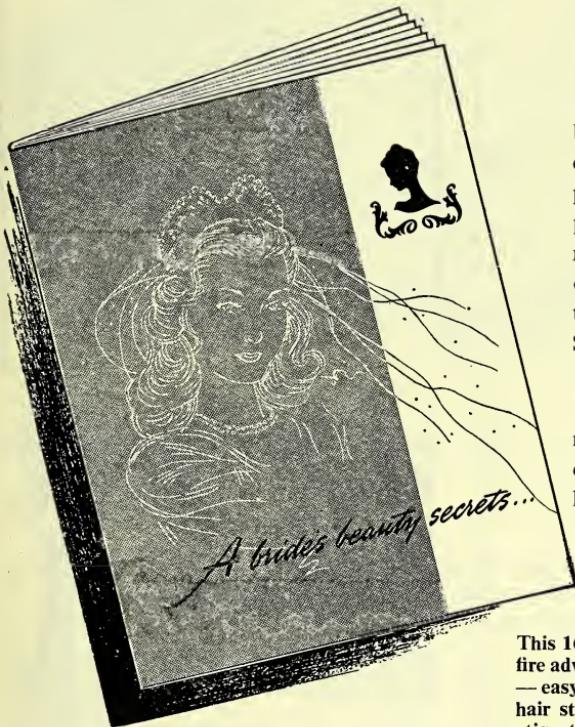
• • • • *a slimming preparation*

Supplies obtainable from our Distributors

POTTER & MOORE LIMITED

LAVENDER HOUSE, SEYMORE ROAD, LEYTON, E.10

**Tens of thousands of these popular
Booklets are now going out
selling the whole range of
Snowfire Beauty Preparations**



SO GREAT has been the demand for this Snowfire booklet, that thousands more copies are now rolling off the presses to be sent to the public. Each one sells the whole range of Snowfire Beauty products; and the women who take the course are going to buy their Snowfire preparations *somewhere. Why not from you?*

Look over your Snowfire stock now and place your Snowfire order to be sure you are not losing business!

* * *

This 16-page booklet, offered free in Snowfire advertisements, is a whole beauty course — easy ways to face and figure beauty; hair styles, popularity secrets and wedding etiquette. Thousands are writing for it.

**Snowfire Vanishing Cream Foundation
and Snowfire Face Powder**

are being NATIONALLY ADVERTISED in
papers read by many MILLIONS of women

**AYRTON
SAUNDERS
& CO. LTD.
LIVERPOOL**

—
The
Complete
Pharmacy
Service
—

DRUGS
GALENICALS
PENICILLIN
ETHICALS
PROPRIETARIES
PACKED GOODS
SUNDRIES
PATENTS
FANCIES
TOILETS
CORKS BOTTLES

34 Hanover Street
LIVERPOOL

**TUNGLOSE
BRAND
DEXTROSE
MONOHYDRATE**



**TUNNEL GLUCOSE
REFINERIES LTD.**

Bank Chambers, 329 High Holborn,
London, W.C.1

Telephone: Chancery 6524 (6 lines)

Works: Tunnel Avenue, Greenwich

More and more people
are asking for

**VICHY-
CELESTINS**



THE WORLD-FAMOUS
FRENCH SPA WATER

Bottled as it flows
from the Spring

There is an ever increasing demand
for Vichy-Celestins, over 40,000,000
bottles of which are sold annually
throughout the world. Showcards
and leaflets available to retailers
on request.

Sole Agents for the United Kingdom
Ingram & Royle Ltd., 50 Manchester St.,
London, W.I., also distributors of the other
famous French Spa Waters—Contrexeville,
Pétion, Eau d'Avril and Vittel.





DESIGNED

FOR FEWER

SIDE-EFFECTS

NEW

For local application

'Histantin' is now also issued as 'Histantin' Cream, 2 per cent, in tubes of $\frac{1}{4}$ oz. (approx. 20 grammes)

Nearly 100 derivatives of piperazine were synthesised at The Wellcome Laboratories before workers there were satisfied that one compound, 'Histantin,' offered a noteworthy advance in antihistamine therapy.

● 'Histantin' produces fewer side-effects and provides prolonged action—a single daily dose suffices in most cases. ● 'Histantin' is chemically unrelated to other antihistamine agents. Compressed products of 50 mgm. in bottles of 25, 100 and 500.

"HISTANTIN"

CHLORCYCLIZINE HYDROCHLORIDE

dl-1-(*p*-chlorobenzhydryl)-4-methylpiperazine monohydrochloride

The NEW TYPE antihistamine



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

By local application

ANTISTIN-PRIVINE

provides

PROMPT and PROLONGED RELIEF

in

HAY FEVER

and other allergic nasal
and ophthalmic conditions

Treatment with Antistin-Privine is free from side effects. By applying Antistin-Privine full business and recreational activities can be undertaken even under the worst hay fever conditions.

Pocket Nebuliser (3/6)

½ fl. oz. Bottle with dropper (4/-), 4 fl. ozs. (22/-) and 20 fl. ozs. (88/-)

Retail discount 33½%. Exempt from purchase tax.



'Antistin' and 'Privine' are registered trade marks : Reg. user

CIBA LABORATORIES LTD • HORSHAM • SUSSEX

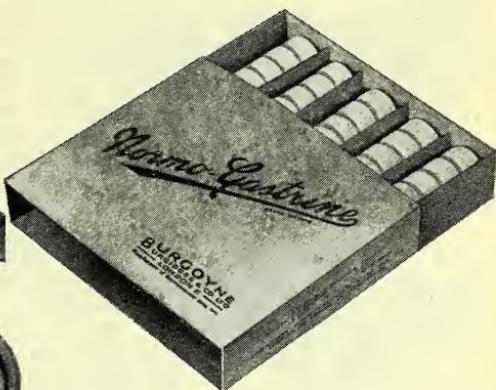
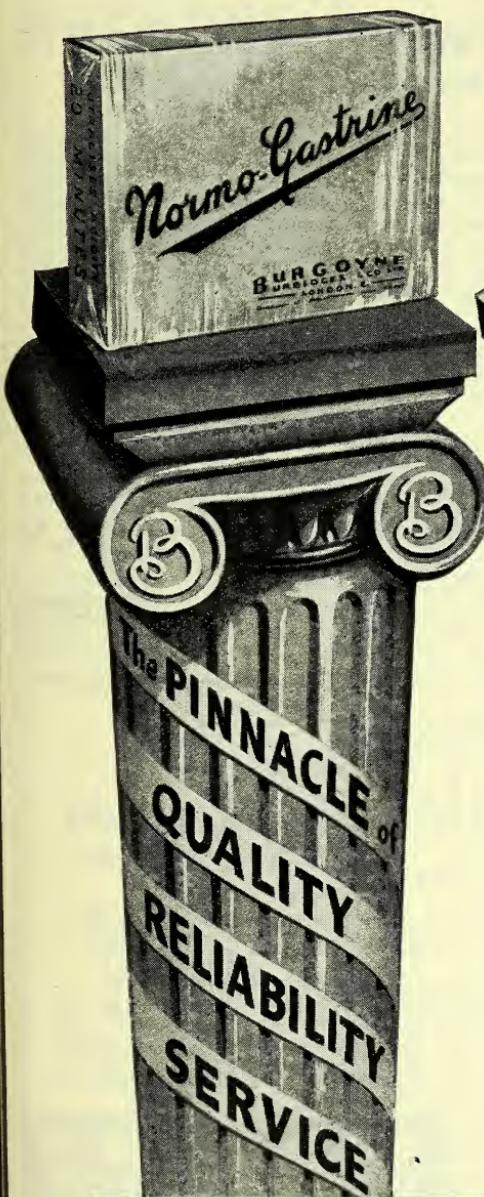
Telephone: Horsham 1234

Telegrams: Cibalabs, Horsham

July 7, 1951

THE CHEMIST AND DRUGGIST
SUPPLEMENT

*The best of its kind,
always 'above' the average*



Normo-Gastrine

... neutralises acidity
in 20 minutes

An elegant and palatable Aluminium Silicate preparation.

Packed in boxes of
50 tablets, retailing 2/3
Tax included

14/6 per doz. plus $\frac{1}{3}$ tax

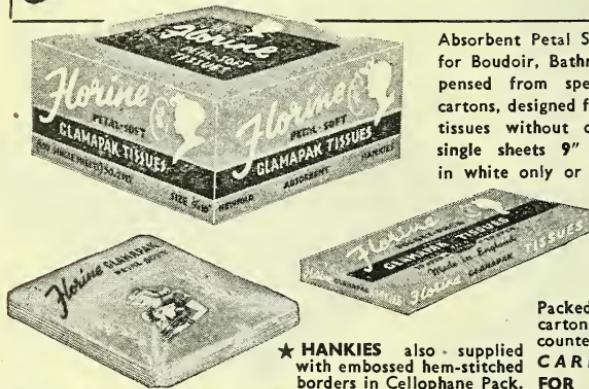
BURGOYNE BURBIDGES

Established 1741. & COMPANY LIMITED, LONDON. E.6

Florine

2 PLY
GLAMAPAK

PETAL-SOFT
TISSUE
HANKIES



★ HANKIES also supplied with embossed hem-stitched borders in Cellophane Pack.

Absorbent Petal Soft, New fold tissues, Improved Folding for Boudoir, Bathroom or for travel use. Conveniently dispensed from specially constructed, attractively printed cartons, designed for immediate single selection of coloured tissues without contamination. Each box contains 100 single sheets 9" x 10" folded 4½" x 5". Obtainable in white only or supplied assorted tints and self colours.

THE POCKET PACK

Specially designed Dispenser Carton contains 24 regular sized tissues (12 pulls) white only, folded 2½" x 5" for handbag, school and travel use.

Packed in Display Boxes containing 1 dozen cartons—convenient for distribution, ideal for counter display.

CARRIES FULL PROFIT MARGIN
FOR WHOLESALER AND RETAILER

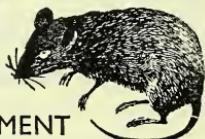
FREEDER BROTHERS PAPER MILLS

BRIMSDOWN, ENFIELD, MIDDLESEX

Telephone: Howard 1847 (5 lines).

Telegrams: Sylkocrepe, Enfield, Middlesex.

Harbouring
RATS
a crime
by ACT OF PARLIAMENT



The Prevention of damage by Pests Act, 1949 applying to Rats and Mice is now in operation

RODINE KILLS

Norway (or Brown) Rat *Rattus norvegicus*
Ship (or Black) Rat *Rattus rattus*
House Mouse *Mus musculus*

all species of Rats and Mice!

YOU ARE WISE TO RECOMMEND

RODINE

P.A.T.A.

THE POSITIVE RAT KILLER
T. HARLEY LTD. • PERTH • SCOTLAND



PHARMACEUTICAL CHEMICALS
ALKALOIDS • DRUGS • OILS



Manufacturers of

BENZOCAIN
BENZONAPHTHOL
p-AMINO BENZOIC ACID
p-NITRO BENZOIC ACID
THEOPHYLLINE and SALTS

HUFFER & SMITH LTD

WHOLESALE & MANUFACTURING CHEMISTS

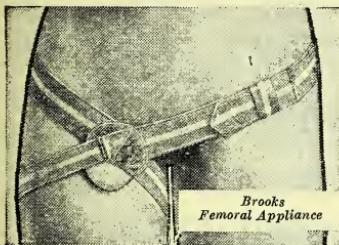
CROYDON, ENGLAND

Telephone: THORNTON HEATH 4266-7

Telegrams:
HAHU, CROYDON SANTONINIC CROYDON

BROOKS Rupture Appliances*

For every known type of Hernia



★ Patented in England and thirteen foreign countries. Sold the world over.

Every Brooks appliance is carefully made to individual measurements and is guaranteed to fit perfectly and to hold securely. In addition to the usual types (inguinal, scrotal, umbilical, femoral, etc.) we also make Tropical Rupture Appliances, Bathing and Swim Trusses, Children's and Babies' Appliances and also Belts of all kinds. Our range includes everything for the ruptured, and we are privileged to co-operate with an increasing number of medical men and hospitals.

Let us send you full particulars.

BROOKS Appliance Co., Ltd.

LONDON: 80 Chancery Lane, W.C.2. Telephone: Holborn 4813

MANCHESTER: Hilton Chambers, Hilton Street, Stevenson Square

Telephone: Central 5031

LIVERPOOL: 66 Rodney Street.

Telephone: Royal 6548

DISTRIBUTORS FOR NORTHERN IRELAND

Mr. E. A. POOTS, M.P.S., 84 MAIN ST., LARNE, N. IRELAND
(905A)

DISTRIBUTORS FOR EIRE

A. W. MAGENNIS LTD., 45 MIDDLE ABBEY ST., DUBLIN
Also at Buenos Aires, Johannesburg, Sydney, Melbourne, Calcutta, Durban, etc.

DUNLOP
the name your
customers trust

DUNLOP RUBBER COMPANY, LTD.,
General Rubber Goods Division, Cambridge St., Manchester 1.



Regd. Design

6 oz. Best
White Sulphite
**SEND FOR
SAMPLE ROLL
and
COUNTER
DISPLAY
STAND**

HUNT & COLLEYS LIMITED
HUCKNALL RD., NOTTINGHAM. Tel. 61088-9

**QUATERNARY AMMONIUM
COMPOUNDS** *Now available commercially*

LEDA CHEMICALS LTD.

are pleased to announce that they are now manufacturing the following quaternary ammonium compounds in commercial quantities:—

LAURYL PYRIDINIUM CHLORIDE

LAURYL PYRIDINIUM CHLORIDE (broad cut)

CETYL PYRIDINIUM CHLORIDE

LAURYL DIMETHYL BENZYL AMMONIUM CHLORIDE
MIXED ALKYL DIMETHYL BENZYL AMMONIUM
CHLORIDE

CETYL DIMETHYL BENZYL AMMONIUM CHLORIDE
STEARYL DIMETHYL BENZYL AMMONIUM CHLORIDE

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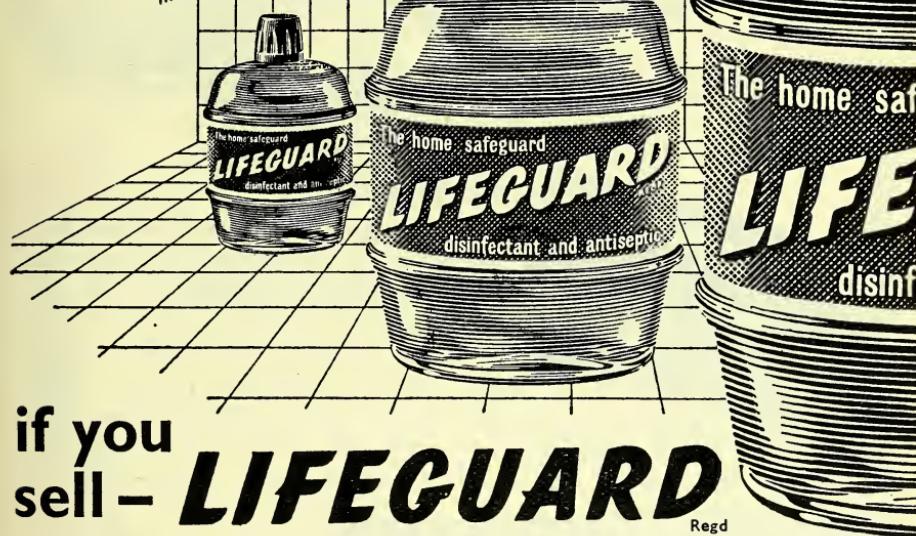
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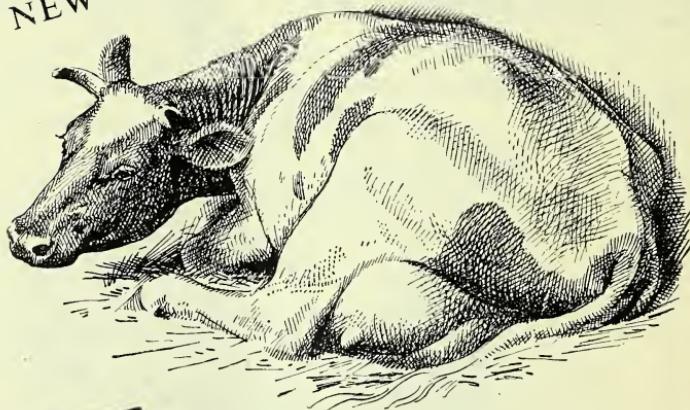
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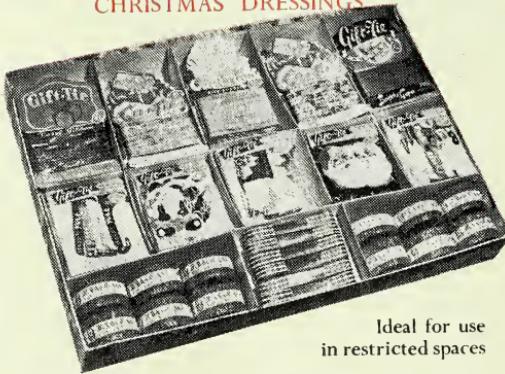
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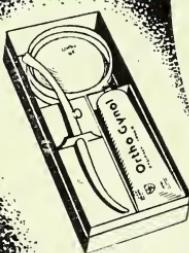
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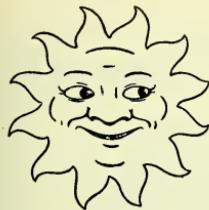
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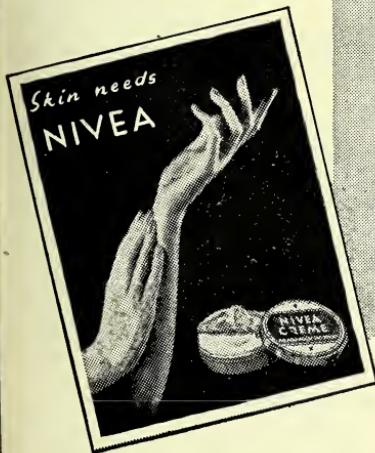
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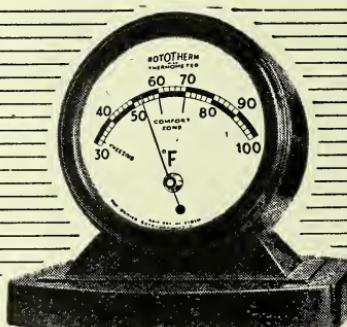
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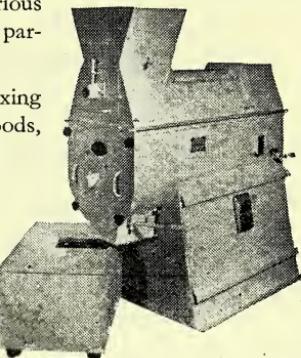
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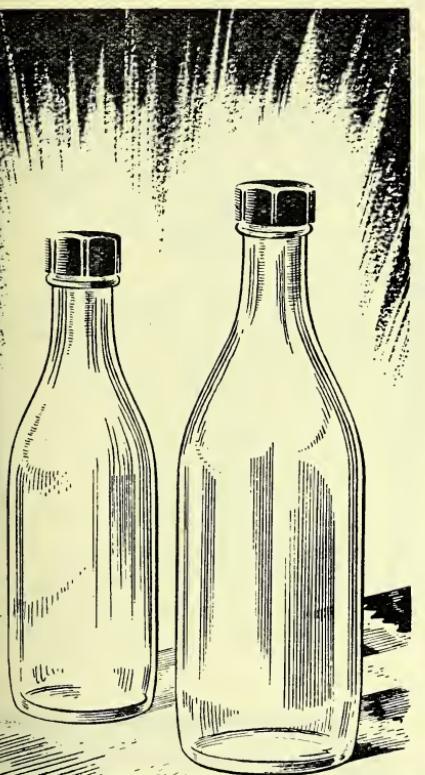
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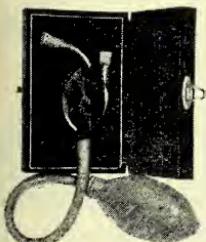
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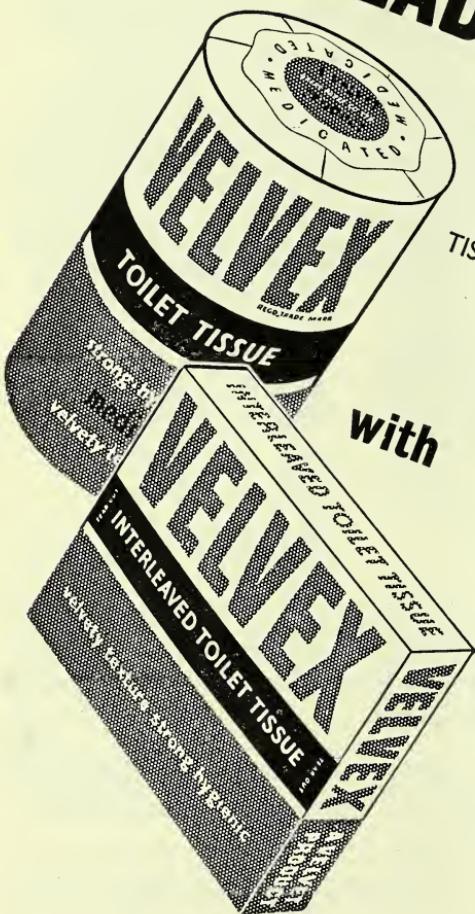
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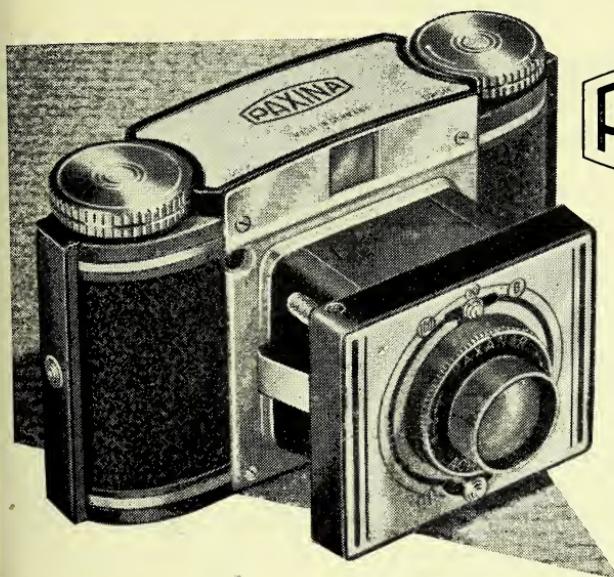
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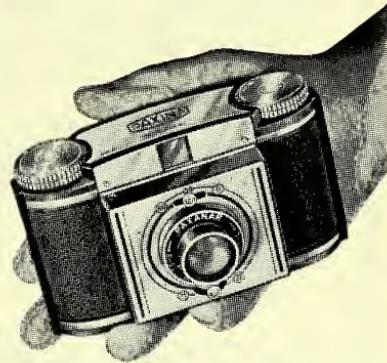
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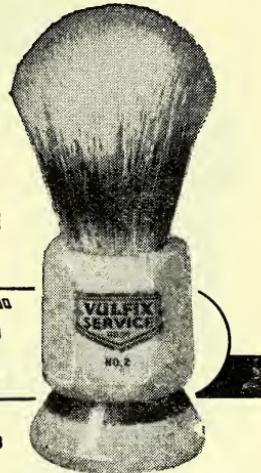
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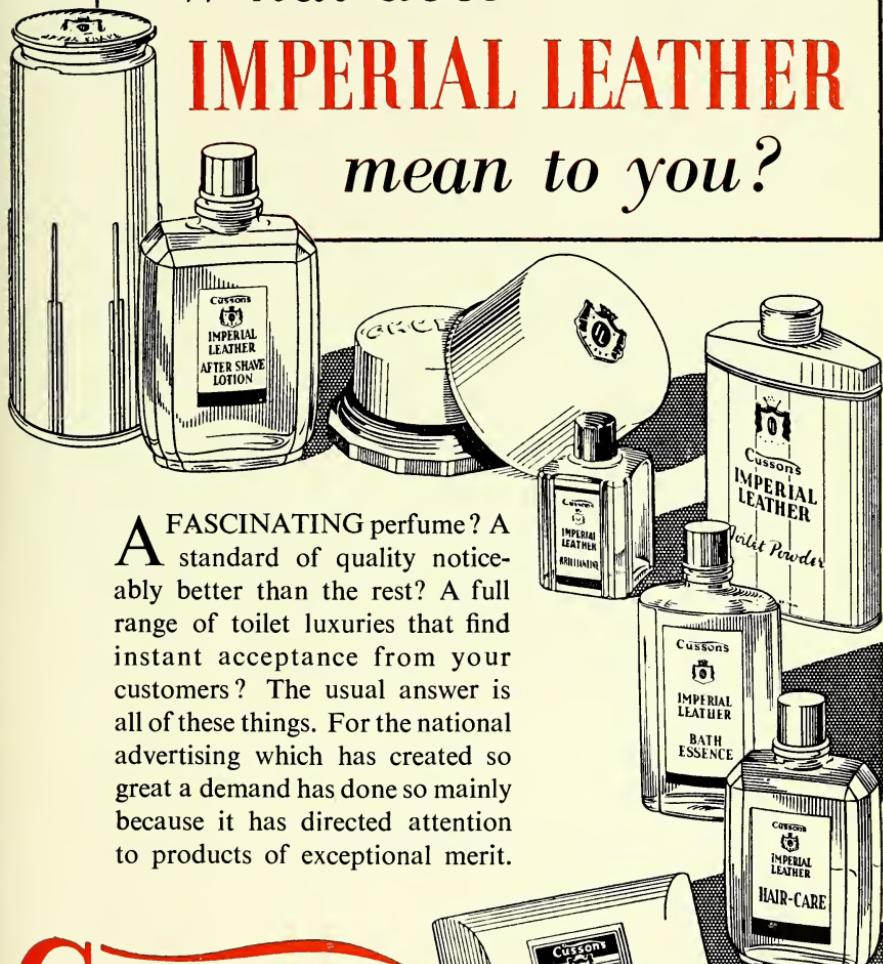
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